

Head Start Health Matters

Tabulations by Region from the 2012–2013 Head Start Health Manager Descriptive Study for Regions I–XII

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Preface

The Office of Planning, Research, and Evaluation within the Administration for Children and Families (U.S. Department of Health and Human Services) contracted with the RAND Corporation to conduct the Head Start Health Manager Descriptive Study. The overall purpose of the study was to provide a current snapshot of health-related activities and programming within Head Start and Early Head Start (HS/EHS) programs, to better understand the context in which the health service area operates, and to identify the current needs of health managers and health staff as they work toward improving the health of HS/EHS children, families, and staff. The study also intended to provide information about services currently provided and the challenges that HS/EHS programs face. The last national survey of the Head Start health services area was conducted in 1993–1995, prior to the implementation of Early Head Start. In addition, prior research efforts on the health services area have neither included large samples of American Indian and Alaska Native (AIAN) HS/EHS programs nor Migrant and Seasonal Head Start (MSHS) programs (also known as Region XI and Region XII programs, respectively).

The study designed and fielded a short online survey for HS/EHS program directors and a more in-depth online survey of the HS/EHS health managers to whom directors referred us. All directors of HS/EHS programs in operation during the 2012–2013 program year were invited to complete a survey, including AIAN and MSHS programs. In addition, we conducted semistructured interviews with a small number of health managers who completed the online survey and a small number of teachers, family service workers and home visitors. The results of the online surveys and interviews are available in the following study report:

Lynn A. Karoly, Laurie T. Martin, Anita Chandra, and Claude Messan Setodji. 2016. *Head Start Health Matters: Findings from the 2012–2013 Head Start Health Manager Descriptive Study for Regions I–XII*, OPRE Report 2016-44. Washington, D.C.: Office of Planning, Research, and Evaluation, Administration for Children and Families, U.S. Department of Health and Human Services.

The purpose of this document is to provide additional tabulations from the health manager online survey for each of the 12 Head Start regions. The survey results for all regions, available in the above study report, are tabulated as well. The tabulations are from the

core survey questions that were asked of all health managers. The number of health manager respondents varied by region according to the number of grantee and delegate agencies in the region, the response rate for the associated program directors, and the response rate for the health managers for whom the program directors provide contact information.

This research was conducted in RAND Health. Additional information about RAND is available at www.rand.org.

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Abbreviations

AA	associate degree
ADD	attention deficit disorder
ADHD	attention deficit hyperactivity disorder
AIAN	American Indian and Alaska Native
BA	bachelor's degree
BMI	body mass index
EHS	Early Head Start
HS	Head Start
HSAC	Health Services Advisory Committee
HS/EHS	Head Start and Early Head Start (programs)
IDEA	Individuals with Disabilities Education Act
LEA	local education agency
LPN	licensed practical nurse
MMIC™	Multimode Interviewing Capability

MSHS	Migrant and Seasonal Head Start
OB	obstetrician
OCD	obsessive-compulsive disorder
OHS	Office of Head Start
OMB	Office of Management and Budget
PIR	Program Information Report
PTSD	posttraumatic stress disorder
RN	registered nurse
SCHIP	State Child Health Insurance Program
TB	tuberculosis
WIC	Special Supplemental Nutrition Program for Women, Infants, and Children

1. Introduction

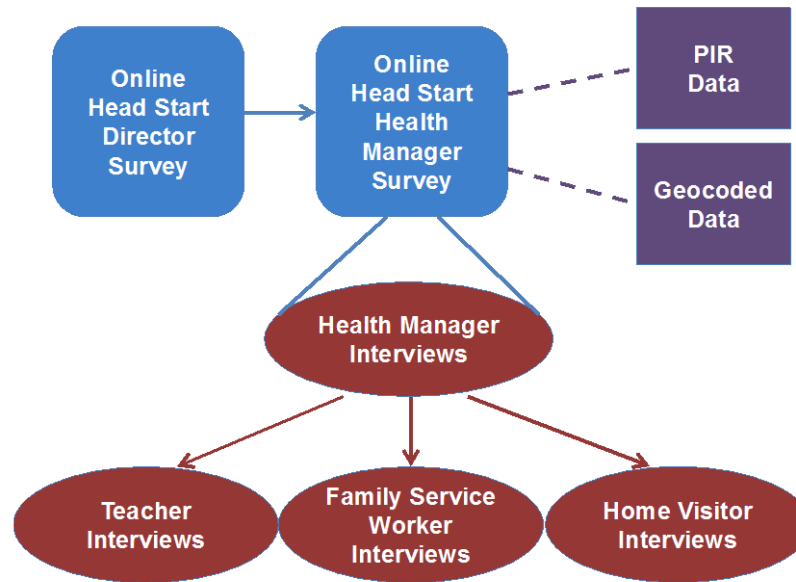
The Head Start Health Manager Descriptive Study had four specific goals:

1. Describe the characteristics of health managers and related staff in Head Start and Early Head Start (HS/EHS) programs,
2. Identify the current landscape of the Head Start health services area and what is being offered to children and families,
3. Determine how Head Start health initiatives are prioritized, implemented, and sustained,
4. Identify the programmatic features and policy levers that exist to support Head Start health services including staffing, environment, and community collaboration.

As illustrated in Figure 1.1, the study involved the collection of primary data using two modes: (1) an online survey of HS/EHS directors and another online survey of HS/EHS health managers (blue boxes), and (2) a set of semistructured interviews with a subset of HS/EHS health managers, teachers, family service workers, and home visitors (red ovals). HS/EHS programs in all ten Head Start geographic-based regions (Regions I to X), as well as Region XI American Indian and Alaska Native (AIAN) programs and Region XII Migrant and Seasonal Head Start (MSHS) programs, were included in the surveys and interviews. The primary data collection took place between December 2012 and November 2013. These new data were combined with two existing data sources (purple squares): Head Start program administrative data from the Program Information Report (PIR) and publicly available geocoded data sets relevant to Head Start and the health services area. The ability to link to the PIR allowed the online survey to complement, not duplicate, information already collected from HS/EHS programs (grantee and delegate agencies). The geocoded data provide additional contextual information from which to characterize the health needs and resources in the communities where HS/EHS programs operate.

The goal of this study document is to provide tabulations from the health manager online survey for each of the 12 Head Start regions, tabulations that are not available in the main study report (Karoly et al., 2016). The tabulations are from the core survey questions that were asked of all health managers which encompass the main topics covered in the Health Manager Survey. The number of health manager respondents varied by region according to the number of grantee and delegate agencies in the region and the response rate for the associated program directors and then the health managers for whom the program directors provide contact information.

Figure 1.1. Relationship of Study Data Components



Before presenting the regional tabulations, the next section provides a brief overview of the study approach, particularly for the online Health Manager Survey. Additional details about the study methodology and the main findings, including results from the semi-structured interviews, are available in the main study report (Karloly et al., 2016). The remainder of the document then provides tabulations organized the by main survey themes. Table 1.1 provides a summary of the topics covered in each section and a page reference to allow readers to go to the topics and sections of most interest.

Table 1.1. Health Manager Survey Topics by Report Section

Section	Topic	Page Number
3	Health manager characteristics	11
4	Staffing and professional development for Health Services Area	33
5	Health Services Advisory Committee	64
6	Health issues for HS/EHS children and families	72
7	Health management of individual child	77
8	Overview of health services in Head Start	83
9	Partnerships for physical health, mental/behavioral health, oral health	97
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2. Overview of Director and Health Manager Survey

This section provides a brief overview of the survey data collection from HS/EHS directors and health managers.¹ As described more fully in Karoly et al. (2016), the study was guided by an organizational framework that was shaped by an understanding of the key stakeholders involved in planning for, implementing, and participating in the Head Start health services area, as well as how those stakeholders work together to inform and implement components of the health services area, including health management of children (e.g., administering medication), screening (e.g., vision and hearing), referrals for health services (e.g., referrals to specialists or behavioral health services), prevention and health-promotion activities (e.g., hygiene, safety), staff wellness (e.g., weight management, smoking), and facilitation of community linkages (e.g., with providers). The organizational framework was used in the development of the instruments for primary data collection.

As required under the 1980 Paperwork Reduction Act, the study protocol was reviewed and approved by the Office of Management and Budget (OMB) (OMB approval number 0970-0415). The RAND study team, together with the Administration for Children and Families and the project Technical Working Group, took great care to ensure that the ways in which the study was designed, approved, and launched accounted for and was respectful of tribal culture and history around research with tribal populations. Similar attention was given to the relevance of the data-collection instruments and methods for Region XII MSHS programs.

Director and Health Manager Surveys

Based on contact information available in the Head Start Program Information Report (PIR), directors for HS/EHS grantees and delegate agencies as of November 2012—including Region XI AIAN programs and Region XII MSHS programs—were invited to complete the short (15-minute) online Director Survey to obtain basic information about the HS/EHS program and the activities in the health services area. The questions covered the special populations served by the program; the overall budget and budget for the health

¹ For more in-depth information about the data collection methodology, including the semi-structured interviews conducted with health managers and other HS/EHS staff, see Karoly et al. (2016).

services area; the director's role with the Health Services Advisory Committee (HSAC); and the director's education, training, and demographic characteristics. The director was also asked to provide the names and contact information (i.e., email address) for the health manager or health managers in her or his program. The survey was administered using RAND's Multimode Interviewing Capability (MMICTM) survey system, a computer-assisted data-collection program. Respondents using the MMICTM interface were given a unique login and password, so the status of their survey could be tracked. Respondents were able to begin the survey online, save responses, and return later to the instrument if they were not able to complete the survey in one session.

As directors completed their surveys, the contact information they provided for one or more health managers was used to invite them to complete the online Health Manager Survey. The Health Manager Survey questionnaire took about 45 minutes to complete and covered more-detailed information about the health manager and that role, the role of other HS/EHS staff, management of health conditions among children and families, screening and referral processes, health promotion and disease prevention, staff wellness, and community linkages. The Health Manager Survey instrument included core questions administered to all respondents and a set of supplemental questions, divided into four modules. Respondents were stratified and then randomly assigned to respond to one of the four supplements, so about one-quarter of the respondents answered each set of supplemental questions.

Responses and Analytic Weights

In total, 2,778 HS/EHS programs (grantee and delegate agencies) active in the 2012–13 program year were eligible for the survey. The first column of Table 2.1 shows how the eligible programs were distributed by program type (HS and EHS) and by Head Start region. Based on the PIR for 2011–2012, which was the latest PIR information available in November 2012, when the list of directors was identified, the eligible programs were headed by 1,965 unique directors. Those directors were invited to take the Director Survey. A total of 1,627 directors responded to the online survey and provided a referral to one or more health managers, for an 83 percent response rate among the unique directors. Because some directors were responsible for more than one program (e.g., an HS program and an EHS program), the responding directors represent 84 percent (2,330) of the 2,778 HS/EHS programs active in the 2012–2013 program year. The second column of Table 2.1 shows how those programs with a director response were distributed by program type and region and the corresponding response rate at the program level.

For the 2,013 health managers invited to take the Health Manager Survey, a partial survey was received for 124 health managers, and 1,341 health managers completed the full online survey. Thus, the response rate for the Health Manager Survey, including the partial respondents, was 73 percent among eligible health managers. Some health managers serve the same program; others serve

more than one program (e.g., an HS program and an EHS program administered by the same agency). On balance, the 1,465 responding health managers represented 1,902 programs, or 68 percent of the 2,778 eligible HS/EHS programs. The final two columns report the distribution of programs with a Health Manager Survey response by program type and region, along with the corresponding response rate at the program level.

Table 2.1. Response Rates for Director and Health Manager Surveys: By Program Type and Region

Program Characteristic	All Programs 2012–2013 PIR Frame (<i>N</i>)	Programs with Director Survey Response (<i>N</i>)	Director Survey Response Rate (%)	Programs with Health Manager Survey Response (<i>N</i>)	Health Manager Response Rate (%)
Total	2,778	2,330	83.9	1,902	68.5
Program type					
Head Start	1,767	1,462	82.7	1,176	66.6
Early Head Start	1,011	868	85.9	726	71.8
Program region					
Region I	138	128	92.8	110	79.7
Region II	325	257	79.1	200	61.5
Region III	245	213	86.9	181	73.9
Region IV	412	364	88.3	299	72.6
Region V	467	382	81.8	301	64.5
Region VI	282	233	82.6	190	67.4
Region VII	145	127	87.6	110	75.9
Region VIII	132	114	86.4	97	73.5
Region IX	259	211	81.5	173	66.8
Region X	108	101	93.5	92	85.2
Region XI (AIAN)	198	145	73.2	101	51.0
Region XII (MSHS)	67	55	82.1	48	71.6

SOURCE: Authors' analysis of 2012–2013 PIR data and the Head Start Health Manager Descriptive Study's Director and Health Manager Surveys.

NOTES: The response rates in this table measure the percentage of programs in the PIR frame represented by the respondents to the Director Survey and the respondents to the Health Manager Survey.

Although the goal was to obtain as close as possible to a 100 percent response for the online surveys, we anticipated that there would be some degree of nonresponse and that analytic weights would be needed to account for any selectivity in which directors and health managers responded to the survey. With key characteristics of all HS/EHS programs known a priori through information

available in the PIR, we constructed nonresponse weights based on a subset of those program characteristics (e.g., program type, size, and region). These weights are used when calculating means or percentage distributions across survey responses. By using weights, we can generalize study findings to all health managers or all HS/EHS programs.

The weighted tabulations provided in this document are all based on the Health Manager Survey responses and results are reported for HS/EHS programs in all regions combined and separately for HS/EHS programs in each of the 12 regions.² It is important to keep in mind, as shown in Table 2.2, that the number of programs with a health manager respondent varies from 48 programs in Region XII to 301 programs in Region V, largely because of variation in the number of programs across regions.

Analytic Approach

Given the nature of the study objectives, this study was designed to be descriptive. For categorical variables, results are presented as mean percentages or percentage distributions. In some tables where there is no natural ordering of response categories and where response categories are not repeated across tables, we reordered the response list in the online survey so that we display the response categories in order from the most to least prevalent. (The original order for response categories can be seen in the survey instrument included in Appendix D of Karoly et al., 2016.) For continuous variables, we present means or medians, as well as distributions using categorical divisions. Percentage distributions and means are calculated excluding respondents with missing data (i.e., the cases are excluded from the denominator). In some cases, respondents indicated that a question item was not applicable, and those cases are excluded from the calculations of means, percentages, and percentage distributions. Respondents were allowed to say “don’t know” for some questions. When that response was an option, we note in the tables and the text if we treat it as a separate response category or exclude those cases from calculations of summary statistics.

All results are weighted using two approaches:

- Weighting with the health manager as the unit of analysis. As noted, a single health manager may have been responding for more than one HS program or EHS program. Section 3 focuses on a number of characteristics of health managers, so it is more natural to consider the health manager as the unit of analysis. This is equivalent to analyzing the health manager workforce as the population of interest, rather than the population of HS/EHS programs. Thus, for that section, we weight the survey data to be representative of the Head Start health manager population.

² The main study report provides tabulations separately for HS programs and EHS programs. Subgroup results are also reported based on the health manager’s health-related education background, program size based on funded enrollment, and program rural-urban status (see Karoly et al., 2016).

- Weighting with the program as the unit of analysis. Starting with Section 4, we discuss a number of findings with respect to the Head Start health services area; for these indicators, the HS/EHS program—grantee or delegate agency—is the relevant unit of analysis. Thus, for Sections 4 to 12, we weight the survey results to be representative of HS/EHS programs.

Interpreting Differences

In reporting results for all HS/EHS programs and for programs by Head Start region, it is important to keep in mind that these analyses are intended to be descriptive and we are not focused on interpreting any measured differences. First, because we do not have responses from all HS/EHS programs, survey results are measured with error. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions. Second, as a descriptive study, we are interested in documenting the patterns for all HS/EHS programs and for programs in each region, but we are not able to explain the reasons for any differences we observe. Such differences may reflect underlying variation in the populations of children and families served, in the internal and external resources available to HS/EHS programs, and in the background and competencies of the health managers and other health services area staff.

Tabulations by Region

The tabulations by region that follow in Sections 3 to 12 follow a similar format. Each section provides a text box with an overview of the methods used for that section. The specific survey questions tabulated are listed, with response categories to each question provided in the accompanying table. The overall findings from Karoly et al. (2016) are summarized, as well. The tabulations are divided across two half-tables: the first half-table shows results for all regions combined and for Regions I to VI; a second half-table repeats the result for all regions while also displaying results for Regions VII to XII.

3. Health Manager Characteristics

This section covers key demographic characteristics of the health manager workforce, as well as their education and credentialing, employment experience, job characteristics, job satisfaction, and job challenges. Survey results in this section are weighted to be representative of the population of health managers rather than all HS/EHS programs.

Survey Questions

Table 3.1 reports results in total and by region for the following in the Health Manager Survey:

- DEM01. What is your sex?
- DEM07. Is your age...?
- DEM02. Are you Hispanic, Latino/a, or Spanish origin?
- DEM03. What is your race?
- DEM04. How well do you speak English?
- DEM05. Do you speak a language other than English at home?
- DEM09. Do you or did you ever have a child in your household who attends/attended EHS/HS?

Table 3.2 reports results in total and by region for the following question in the Health Manager Survey:

- EDU01. What is the highest grade or year of school that you completed?

Table 3.3 reports results in total and by region for the following question in the Health Manager Survey:

- EDU02. Please describe how much coursework you had in the following areas?

Table 3.4 reports results in total and by region for the following questions in the Health Manager Survey:

Methods

- The health manager is the unit of analysis.
- All results are weighted to be representative of health managers.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (modules 1 and 7) are reported for health managers in all HS and EHS programs combined and separately by Head Start region.
- See Chapter Three in Karoly et al. (2016) for additional results.

- EDU03. Have you ever had any licenses, certificates or credentials relating to health such as medicine, nursing, or oral health (include those earned outside of the United States)?
- EDU04. For each one that you have had, say whether it is active at this time.

Table 3.5 reports results in total and by region based on a summary measure of the health-related education background of HS/EHS health managers, combining the information on the highest degree attained (Table 3.2), the degree field (Table 3.3), and having health-related licenses, certificates, or credentials (Table 3.4). Health managers were assigned to one of three categories hierarchically:

- Health-related bachelor's degree or credentials: those with bachelor's degrees or higher in health-related fields (i.e., those fields listed in Table 3.3, namely child health, special needs, medicine, nursing, behavioral or mental health, social work, health education, nutrition, physical fitness, or public/community health) or bachelor's degree or higher in some other field along with health-related licenses, certificates, or credentials
- Health-related associate degree or credentials: those who do not meet the criteria for the first group but have no higher than associate degrees in a health-related fields or degrees in some other field (or no degree) but a health-related licenses, certificates, or credentials
- No health-related education background: those who do not meet the criteria for either the first or second group, which means that they have no postsecondary degrees in a health-related fields and no health-related licenses, certificates, or credentials.

Table 3.6 reports results in total and by region for the following questions in the Health Manager Survey:

- EDU07. Before the position you have now, what other positions have you held at your current program or another EHS/HS program?

Table 3.7 reports results in total and by region for the following questions in the Health Manager Survey:

- STF01. As the Health Manager, how many EHS/HS sites (or centers) are you responsible for?
- STF02. How many hours per week do you usually work for EHS/HS?
- STF03. How many weeks per year do you work for EHS/HS? Please include paid vacation time.

Table 3.8 reports results in total and by region for the following questions in the Health Manager Survey:

- DEM08. About how much do you make each year at EHS/HS?

Table 3.9 reports results in total and by region for the following questions in the Health Manager Survey:

- DEM10. How satisfied are you with your current position as a health manager?

Table 3.10 reports results in total and by region for the following questions in the Health Manager Survey:

- STF09. In your position now, what conditions or situations make it especially hard for you to do your job well?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for Health Managers in All HS/EHS Programs

Demographics. The workforce of health managers is predominantly female (96 percent) and diverse in terms of race (78 percent white and 16 percent African-American) and ethnicity (14 percent Latina/o). One in three health managers has had a child attend Head Start or Early Head Start.

Education. Health managers come to the job with varied backgrounds in terms of their education and training. About two in three have bachelor's degrees or higher, with nursing, child health, and community or public health being common degree fields. Nearly all health managers (91 percent) have at least had coursework in child health and coursework is also common in such key fields such as special needs, behavioral or mental health, health education, nutrition, physical fitness, and community or public health.

Credentialing. Just over one-half of health managers have health-related licenses, certificates, or credentials. A nursing-related credential is the most common, with 25 percent of health managers having active registered nurse (RN) licenses and 11 percent having active licensed practical nurse (LPN) licenses.

Health-related education. After accounting for highest degree; degree fields; and health-related licenses, certificates, or credentials, we found that about 58 percent of health managers have bachelor's degrees or higher in health-related fields or in combination a health-related licenses, certificates, or credentials. Just 15 percent have no health-related education background (i.e., through postsecondary degrees or licenses, certificates, or credentials).

Experience. About two-thirds of health managers have had one or more Head Start positions prior to the current roles, many directly or indirectly related to the health services area, such as a disability manager/coordinator, nutrition manager/coordinator, family service worker, or home visitor. About 12 percent have been a health manager in another program, and nearly one-half have six or more years experience as an HS/EHS health manager.

Job characteristics. Most health managers (80 percent) have responsibility for more than one site (or center), with the typical (or median) health manager covering six sites. The median health manager devotes 40 hours per week to the job and works year-round (52 weeks). The modal salary for health managers is in the range of \$30,000 to \$40,000; fewer than 10 percent are paid more than \$60,000 per year.

Job satisfaction and challenges. Three out of four health managers reported being satisfied or very satisfied with their jobs, yet they also identified significant challenges. The most common challenges selected by the majority of respondents pertain to follow-up for screening or treatment on the part of parents or guardians and time constraints. Other challenges relate to other resources, such as budgets and support staff, and staff training and supervision.

Table 3.1. Health Manager' Characteristics: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Sex (% distribution)							
Female	95.6	100.0	93.8	97.0	96.7	96.4	94.9
Male	4.3	0.0	6.2	3.0	3.3	3.6	5.1
Age (% distribution)							
Younger than age 25	1.0	2.9	2.1	0.0	1.1	1.3	0.0
25 to 34	15.0	12.5	12.2	9.4	12.8	13.0	8.7
35 to 44	25.9	20.2	28.0	25.5	23.6	32.5	21.6
45 to 54	31.4	23.2	31.3	34.3	34.2	29.6	40.2
55 to 64	22.4	32.9	21.4	27.9	23.1	20.5	25.2
65 or older	4.4	8.4	5.0	3.0	5.3	3.1	4.3
Hispanic, Latino/a, or Spanish origin (%)							
No	85.7	91.6	66.2	94.7	95.8	94.3	81.7
Yes							
Yes, Mexican, Mexican American, Chicano/a	5.5	2.8	1.3	0.8	0.5	2.9	11.4
Yes, Puerto Rican	3.9	0.0	24.1	1.5	1.6	1.3	0.0
Yes, Cuban	0.1	0.0	0.0	0.0	0.6	0.4	0.0
Yes, another Hispanic, Latino/a, or Spanish origin	5.6	5.6	9.7	3.0	1.5	2.8	8.7
Race (%)							
White	78.2	95.7	70.3	79.4	62.4	88.9	77.1
Black or African American	16.0	4.3	25.6	19.9	36.6	10.4	19.2
American Indian or Alaska Native	5.4	2.9	0.0	0.0	2.0	1.0	2.9
Asian or South Asian	2.8	0.0	5.5	2.3	1.0	0.5	1.5
Other	0.8	0.0	1.5	0.0	0.0	0.0	0.7
English proficiency (% distribution)							
Speak English very well	94.9	97.1	81.5	97.7	94.6	98.1	98.4
Speak English well	3.9	2.9	9.2	2.3	5.4	1.9	1.6
Speak English not well	0.8	0.0	6.2	0.0	0.0	0.0	0.0
Speak English not at all	0.4	0.0	3.1	0.0	0.0	0.0	0.0
Speaks a language other than English at home (% distribution)							
No	82.0	84.4	60.1	91.0	89.8	92.7	82.0
Yes							
Yes, Spanish alone or with another (non-English) language	13.1	8.5	28.0	5.3	6.7	6.8	15.7
Yes, Asian language	0.7	0.0	1.7	0.7	0.0	0.0	0.0
Yes, other language	4.2	7.1	10.2	3.0	3.6	0.5	2.3
Has or had a child who attended HS/EHS (% distribution)							
Yes	30.0	14.3	35.5	19.2	28.3	29.1	37.6
No	70.0	85.7	64.5	80.8	71.7	70.9	62.4
Number of health manager respondents	1,465	80	162	146	220	235	152

Table 3.1. Health Manager' Characteristics, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Sex (% distribution)							
Female	95.6	100.0	97.6	90.7	96.6	94.1	89.6
Male	4.4	0.0	2.4	9.3	3.4	5.9	10.4
Age (% distribution)							
Younger than age 25	1.0	0.0	1.3	0.0	1.7	0.0	2.5
25 to 34	15.0	26.0	18.9	19.6	22.3	22.7	19.6
35 to 44	25.9	22.9	29.4	23.7	22.7	20.6	32.8
45 to 54	31.3	24.8	22.3	31.5	31.5	33.8	20.7
55 to 64	22.3	23.7	24.2	17.4	17.0	19.5	19.8
65 or older	4.5	2.6	3.9	7.8	4.7	3.4	4.5
Hispanic, Latino/a, or Spanish origin (%)							
No	85.7	98.7	86.9	63.4	90.5	87.2	75.0
Yes							
Yes, Mexican, Mexican American, Chicano/a	5.4	0.0	2.7	23.9	4.8	4.8	22.5
Yes, Puerto Rican	3.9	1.3	1.5	0.9	0.0	1.8	0.0
Yes, Cuban	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Yes, another Hispanic, Latino/a, or Spanish origin	5.6	0.0	8.9	11.8	6.3	6.2	2.5
Race (%)							
White	78.2	90.9	97.5	82.1	89.7	44.8	92.3
Black or African American	16.0	9.1	2.5	7.8	3.5	4.9	5.1
American Indian or Alaska Native	5.4	0.0	1.3	2.1	5.0	60.7	3.3
Asian or South Asian	2.8	0.0	2.7	10.4	5.1	3.6	2.6
Other	0.8	0.0	0.0	5.8	1.6	0.0	0.0
English proficiency (% distribution)							
Speak English very well	94.9	100.0	96.2	94.8	98.4	95.8	92.7
Speak English well	3.9	0.0	2.5	5.2	1.6	4.2	7.3
Speak English not well	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Speak English not at all	0.4	0.0	1.2	0.0	0.0	0.0	0.0
Speaks a language other than English at home (% distribution)							
No	82.1	96.2	94.6	56.9	82.4	87.2	54.2
Yes							
Yes, Spanish alone or with another (non-English) language	13.1	3.8	5.4	35.1	7.9	2.9	41.0
Yes, Asian language	0.6	0.0	0.0	1.7	4.9	0.0	0.0
Yes, other language	4.2	0.0	0.0	6.3	4.8	9.9	4.8
Has or had a child who attended HS/EHS (% distribution)							
Yes	30.0	22.3	27.5	20.0	29.6	59.1	29.2
No	70.0	77.7	72.5	80.0	70.4	40.9	70.8
Number of health manager respondents	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of the Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.1 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.2. Health Manager Education: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Highest education level (% distribution)							
Up to high school diploma/GED	1.8	1.6	2.3	.	1.6	1.7	3.2
Vocational/technical diploma	6.6	5.3	5.6	8.2	7.0	7.7	13.7
Some college, no degree	6.4	7.2	6.8	9.0	6.3	4.7	3.0
Associate degree	19.2	12.7	14.8	17.2	17.6	22.3	29.3
Bachelor's degree	36.2	39.2	38.6	30.7	35.9	33.9	32.7
Graduate/professional school, no degree	7.2	10.9	10.4	10.9	7.9	7.3	2.2
Master's degree	20.9	19.0	19.2	21.7	23.2	21.4	14.5
Other postgraduate degree	1.8	4.1	2.2	2.3	0.5	0.01	1.4
Number of health managers	1,465	80	162	146	220	235	152

Table 3.2. Health Manager Education, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Highest education level (% distribution)							
Up to high school diploma/GED	1.8	1.2	0.0	0.0	1.6	6.5	0.0
Vocational/technical diploma	6.6	1.3	3.8	4.2	0.0	5.9	6.2
Some college, no degree	6.3	5.4	13.8	4.2	1.7	11.3	4.9
Associate degree	19.2	28.5	20.2	10.1	16.7	22.7	12.5
Bachelor's degree	36.3	37.6	37.7	32.7	48.5	43.0	37.4
Graduate/professional school, no degree	7.1	9.3	5.3	5.7	4.4	1.8	7.1
Master's degree	20.9	15.4	16.7	40.7	19.7	8.9	29.6
Other postgraduate degree	1.8	1.4	2.6	2.4	7.5	0.0	2.3
Number of health managers	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.2 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.3. Health Managers' Coursework and Degrees by Field: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Child health (% distribution)							
No courses in field	8.8	7.5	12.5	8.1	11.6	5.5	8.2
Some courses in field	59.9	74.2	58.0	61.8	54.6	60.1	63.7
Associate degree in field	15.1	4.3	8.5	13.9	16.5	19.2	21.5
Bachelor's degree or higher in field	16.3	14.0	21.0	16.3	17.2	15.2	6.7
Special needs (% distribution)							
No courses in field	23.5	18.8	27.9	16.4	22.3	15.3	23.5
Some courses in field	60.9	64.1	54.2	68.8	62.2	69.2	61.8
Associate degree in field	6.1	7.1	1.9	6.2	6.6	6.9	11.8
Bachelor's degree or higher in field	9.5	9.9	16.0	8.6	8.9	8.7	2.9
Medicine (% distribution)							
No courses in field	53.4	56.4	57.0	46.2	55.1	50.7	47.7
Some courses in field	32.7	32.1	27.4	36.4	32.9	35.2	33.7
Associate degree in field	9.5	8.7	8.4	8.1	8.2	11.6	15.5
Bachelor's degree or higher in field	4.4	2.8	7.1	9.3	3.8	2.5	3.1
Nursing (% distribution)							
No courses in field	44.4	34.2	38.9	43.1	51.0	39.2	42.3
Some courses in field	13.7	13.0	12.2	7.9	13.3	15.0	10.4
Associate degree in field	24.0	20.5	25.1	28.9	23.7	26.7	33.6
Bachelor's degree or higher in field	17.9	32.3	23.8	20.2	12.1	19.1	13.7
Behavioral/mental health (% distribution)							
No courses in field	34.9	46.7	34.5	31.7	34.1	31.7	35.0
Some courses in field	51.0	39.0	53.5	54.3	48.6	54.2	53.1
Associate degree in field	4.3	4.4	3.3	4.0	4.9	4.6	6.7
Bachelor's degree or higher in field	9.8	9.9	8.6	10.0	12.4	9.5	5.2
Social work (% distribution)							
No courses in field	47.5	58.4	54.5	44.1	44.4	47.5	47.9
Some courses in field	39.1	30.3	30.3	40.5	39.7	40.2	40.2
Associate degree in field	4.0	2.7	6.1	3.1	4.3	4.1	3.7
Bachelor's degree or higher in field	9.4	8.5	9.0	12.2	11.6	8.3	8.1
Health education (% distribution)							
No courses in field	15.9	11.7	19.0	17.1	17.2	13.3	12.3
Some courses in field	59.1	65.6	58.8	60.2	57.5	62.7	62.6
Associate degree in field	11.9	10.1	10.9	11.9	10.8	12.4	17.5
Bachelor's degree or higher in field	13.1	12.6	11.3	10.8	14.5	11.6	7.7
Nutrition (% distribution)							
No courses in field	18.4	8.5	23.0	20.7	23.7	15.6	14.6
Some courses in field	66.5	71.3	62.8	67.3	59.1	69.5	73.8
Associate degree in field	7.8	7.2	6.0	8.0	8.7	6.6	9.2
Bachelor's degree or higher in field	7.2	13.0	8.1	4.1	8.5	8.4	2.3

Physical fitness (% distribution)							
No courses in field	37.1	38.2	46.4	40.3	40.8	33.2	35.2
Some courses in field	55.3	52.0	46.4	54.8	48.9	59.3	58.8
Associate degree in field	4.1	5.6	4.6	3.3	4.3	3.3	4.6
Bachelor's degree or higher in field	3.5	4.2	2.7	1.7	6.0	4.2	1.5
Public/community health (% distribution)							
No courses in field	32.0	20.2	32.9	33.8	37.7	29.2	32.2
Some courses in field	47.4	47.5	48.5	46.2	42.6	52.2	54.6
Associate degree in field	5.8	4.2	4.9	5.6	5.4	6.0	6.0
Bachelor's degree or higher in field	14.7	28.1	13.7	14.3	14.3	12.6	7.3
Number of health manager respondents	1,465	80	162	146	220	235	152

Table 3.3. Health Managers' Coursework and Degrees by Field: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Child health (% distribution)							
No courses in field	8.8	10.4	5.5	12.6	1.7	8.6	5.2
Some courses in field	59.9	62.9	71.5	52.1	65.7	53.0	59.1
Associate degree in field	15.1	13.3	7.8	14.6	12.6	20.7	19.0
Bachelor's degree or higher in field	16.3	13.5	15.2	20.7	20.1	17.8	16.6
Special needs (% distribution)							
No courses in field	23.5	27.6	33.1	30.3	15.1	36.7	20.8
Some courses in field	60.9	56.1	56.5	53.5	66.1	50.0	65.4
Associate degree in field	6.1	6.7	4.1	6.2	4.7	1.8	6.4
Bachelor's degree or higher in field	9.5	9.6	6.4	10.0	14.2	11.5	7.4
Medicine (% distribution)							
No courses in field	53.4	51.2	51.2	67.9	48.6	57.3	41.9
Some courses in field	32.7	29.7	34.0	27.0	36.6	31.6	49.1
Associate degree in field	9.5	13.4	10.8	1.6	5.0	11.1	6.5
Bachelor's degree or higher in field	4.4	5.6	4.0	3.5	9.8	0.0	2.5
Nursing (% distribution)							
No courses in field	44.4	31.5	40.4	59.2	48.5	57.9	38.5
Some courses in field	13.7	6.9	10.4	13.2	28.6	19.0	32.2
Associate degree in field	24.0	30.6	28.6	13.9	3.2	17.4	16.9
Bachelor's degree or higher in field	17.9	31.0	20.6	13.6	19.7	5.7	12.4
Behavioral/mental health (% distribution)							
No courses in field	34.9	29.4	38.3	42.7	26.3	34.4	41.8
Some courses in field	51.0	54.3	53.8	38.4	59.2	51.4	53.3
Associate degree in field	4.3	5.6	2.7	2.6	4.8	4.8	0.0
Bachelor's degree or higher in field	9.8	10.7	5.1	16.3	9.8	9.4	4.8
Social work (% distribution)							
No courses in field	47.5	48.6	56.3	45.6	28.6	46.6	43.0
Some courses in field	39.1	31.1	37.1	41.2	55.8	46.8	38.8
Associate degree in field	4.0	5.6	2.5	2.6	6.2	1.8	4.8
Bachelor's degree or higher in field	9.4	14.7	4.1	10.6	9.4	4.8	13.3
Health education (% distribution)							
No courses in field	15.9	14.4	6.4	24.1	7.9	24.4	12.8
Some courses in field	59.1	62.7	63.5	49.4	67.1	47.4	55.2
Associate degree in field	11.9	9.4	13.2	8.2	6.2	17.4	6.3
Bachelor's degree or higher in field	13.1	13.4	16.9	18.3	18.8	10.7	25.6
Nutrition (% distribution)							
No courses in field	18.4	12.7	6.6	28.7	11.0	20.8	18.0
Some courses in field	66.5	71.4	74.7	56.5	76.6	63.5	68.4
Associate degree in field	7.8	10.7	10.6	6.1	1.4	11.9	6.2
Bachelor's degree or higher in field	7.2	5.2	8.0	8.7	10.9	3.7	7.3

Physical fitness (% distribution)							
No courses in field	37.1	36.6	30.5	35.8	24.3	38.7	34.4
Some courses in field	55.3	58.1	63.2	55.6	64.9	55.1	58.0
Associate degree in field	4.1	5.3	2.5	6.1	6.2	1.9	0.0
Bachelor's degree or higher in field	3.5	0.0	3.9	2.4	4.6	4.4	7.5
Public/community health (% distribution)							
No courses in field	32.0	26.3	26.3	31.8	21.7	47.1	28.4
Some courses in field	47.4	49.6	52.9	38.2	49.0	43.6	37.0
Associate degree in field	5.8	10.8	5.3	9.6	4.9	.	6.3
Bachelor's degree or higher in field	14.7	13.3	15.6	20.4	24.3	9.2	28.2
Number of health manager respondents	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.3 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases and might not sum to 100 because of rounding.

Table 3.4. Health Managers' Health-Related Licenses, Certificates, or Credentials: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Has health-related license, certificate, or credential (% distribution)							
No	46.0	36.0	39.2	39.8	56.6	42.9	39.0
Yes	54.0	64.0	60.8	60.2	43.4	57.1	61.0
Among those with licenses, certificates, or credentials, type they have (%)							
Physician (MD) or osteopath (DO)							
Currently have	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Had one but not currently active	1.7	0.0	0.0	0.0	0.0	3.2	1.6
Registered nurse (RN)							
Currently have	54.3	77.4	56.1	53.9	45.8	53.7	50.2
Had one but not currently active	1.8	0.0	0.0	1.3	1.2	3.4	1.5
Licensed practical nurse (LPN)							
Currently have	23.8	7.0	31.8	35.9	28.4	28.7	17.7
Had one but not currently active	6.1	7.5	4.9	7.3	5.4	10.3	2.6
Licensed vocational nurse							
Currently have	5.8	0.0	1.5	3.2	3.3	0.0	24.3
Had one but not currently active	1.8	0.0	0.0	0.0	3.1	3.2	3.2
Nurse practitioner							
Currently have	1.6	0.0	0.0	0.0	1.7	3.0	2.8
Had one but not currently active	1.6	2.4	0.0	0.0	0.0	3.2	1.6
School nurse							
Currently have	8.5	7.1	2.7	9.5	12.4	7.4	9.6
Had one but not currently active	1.8	4.8	0.0	3.1	0.0	1.9	0.0
Social worker or counselor							
Currently have	2.5	4.8	1.4	1.8	4.0	1.9	1.6
Had one but not currently active	2.7	2.5	0.0	0.0	4.3	3.2	2.8
Psychologist or psychiatrist							
Currently have	0.5	0.0	1.4	0.0	0.0	0.0	0.0
Had one but not currently active	1.2	0.0	0.0	0.0	0.0	3.2	1.6
Dentist or dental hygienist							
Currently have	0.9	0.0	0.0	1.8	1.6	1.0	1.5
Had one but not currently active	1.8	2.3	1.4	0.0	0.0	3.2	1.6
Nutritionist							
Currently have	3.8	9.7	1.3	1.6	2.9	4.8	2.7
Had one but not currently active	1.7	0.0	0.0	0.0	0.0	3.3	1.6
Number of health manager respondents	1,465	80	162	146	220	235	152

Table 3.4. Health Managers' Health-Related Licenses, Certificates, or Credentials: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Has health-related license, certificate, or credential (% distribution)							
No	46.0	28.2	35.3	58.5	52.4	64.5	50.4
Yes	54.0	71.8	64.7	41.5	47.6	35.5	49.6
Among those with licenses, certificates, or credentials, type they have (%)							
Physician (MD) or osteopath (DO)							
Currently have	0.3	0.0	0.0	2.4	0.0	0.0	5.5
Had one but not currently active	1.7	0.0	2.8	2.3	8.9	7.3	0.0
Registered nurse (RN)							
Currently have	54.3	74.7	55.1	45.7	53.5	41.0	33.1
Had one but not currently active	1.8	0.0	2.3	2.1	0.0	6.1	10.2
Licensed practical nurse (LPN)							
Currently have	23.8	15.3	29.0	5.1	0.0	28.4	10.9
Had one but not currently active	6.1	4.8	7.7	2.2	9.2	0.0	18.0
Licensed vocational nurse							
Currently have	5.8	2.3	2.7	11.6	0.0	14.3	14.1
Had one but not currently active	1.8	0.0	0.0	4.5	0.0	0.0	5.6
Nurse practitioner							
Currently have	1.6	4.5	3.1	0.0	0.0	0.0	6.2
Had one but not currently active	1.6	0.0	0.0	4.7	0.0	7.3	0.0
School nurse							
Currently have	8.5	13.8	5.6	13.3	14.8	5.1	5.5
Had one but not currently active	1.8	0.0	0.0	4.9	0.0	7.3	5.5
Social worker or counselor							
Currently have	2.5	0.0	2.6	4.8	9.6	0.0	5.2
Had one but not currently active	2.7	2.3	0.0	5.1	10.3	7.3	0.0
Psychologist or psychiatrist							
Currently have	0.5	0.0	0.0	2.2	4.6	0.0	5.2
Had one but not currently active	1.2	0.0	0.0	2.3	0.0	7.3	0.0
Dentist or dental hygienist							
Currently have	0.9	0.0	0.0	2.6	0.0	0.0	0.0
Had one but not currently active	1.8	0.0	3.2	2.3	0.0	7.3	0.0
Nutritionist							
Currently have	3.8	2.1	0.0	7.0	4.6	11.5	5.5
Had one but not currently active	1.7	0.0	2.6	2.3	0.0	13.5	0.0
Number of health manager respondents	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.4 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.5. Health Managers' Health-Related Education Background: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health-related education background (% distribution)							
No health-related education background	14.7	14.1	10.4	15.4	18.1	11.3	19.2
Health-related associate degree or credentials	27.4	18.2	24.4	28.9	26.4	31.9	39.7
Health-related bachelor's degree or credentials	57.9	67.7	65.2	55.6	55.5	56.8	41.1
Number of health managers	1,465	80	162	146	220	235	152

Table 3.5. Health Managers' Health-Related Education Background: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health-related education background (% distribution)							
No health-related education background	14.7	10.0	7.8	14.3	15.6	25.7	7.4
Health-related associate degree or credentials	27.4	31.4	34.4	13.4	13.7	29.6	21.2
Health-related bachelor's degree or credentials	57.9	58.6	57.9	72.3	70.8	44.6	71.4
Number of health managers	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.5 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.6. Health Managers' Prior HS/EHS Positions Held: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
No previous positions held (%)	34.4	47.8	30.0	33.6	30.4	42.0	29.8
Prior positions held							
Average number reported (<i>N</i>)	1.8	1.6	1.6	1.7	2.1	1.7	1.9
Percentage for each position (%)							
Health manager/coordinator at another HS/EHS program	11.8	7.1	13.2	12.8	12.9	8.4	7.6
Teacher	17.5	8.1	12.3	10.5	22.6	16.8	27.7
Teacher's aide/instructional aide	9.2	1.3	6.9	6.9	11.8	9.0	13.0
Family service worker/home visitor	18.8	10.9	14.4	20.8	25.4	16.3	16.0
Parent-involvement manager/coordinator or family service manager/coordinator	8.0	6.6	7.8	5.3	9.9	5.8	9.4
Outreach staff, recruiter, or enrollment coordinator	4.8	4.0	2.8	4.6	5.2	3.5	4.6
Health aide	8.0	7.0	9.6	9.7	9.4	5.8	7.0
Counselor	1.8	2.8	4.4	0.0	1.1	0.4	1.3
Disability manager/coordinator	10.1	5.4	9.6	12.0	9.0	11.0	9.1
Behavioral health/mental health manager/coordinator	7.4	2.8	3.3	7.5	13.0	6.1	8.7
Nutrition manager/coordinator	10.9	5.8	8.4	10.3	11.5	11.0	10.7
Culinary or food services staff	2.1	4.0	3.5	0.8	0.5	2.3	1.7
Receptionist or office staff	5.4	4.3	1.4	2.8	8.5	5.4	7.0
Bus driver or related transportation	3.4	0.0	0.0	2.4	5.8	4.8	4.1
Director, associate director, or other program manager	11.3	6.9	10.0	6.0	20.4	9.5	10.1
Number of health managers	1,465	80	162	146	220	235	152

Table 3.6. Health Managers' Prior HS/EHS Positions Held: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
No previous positions held (%)	34.4	45.6	44.0	31.7	26.2	25.3	28.7
Prior positions held							
Average number reported (<i>N</i>)	1.8	1.8	1.7	2.0	2.0	2.1	1.8
Percentage for each position (%)							
Health manager/coordinator at another HS/EHS program	11.8	13.4	14.1	17.5	10.9	9.5	21.0
Teacher	17.5	10.0	9.0	21.1	23.2	23.5	12.3
Teacher's aide/instructional aide	9.2	5.4	8.8	7.9	6.4	19.3	4.9
Family service worker/home visitor	18.8	20.7	10.2	18.8	31.5	23.5	16.9
Parent-involvement manager/coordinator or family service manager/coordinator	8.0	5.3	5.2	9.8	9.5	11.9	7.5
Outreach staff, recruiter, or enrollment coordinator	4.8	9.1	2.4	8.4	5.0	6.5	2.5
Health aide	8.0	5.4	12.7	7.0	6.3	8.4	7.2
Counselor	1.8	1.2	1.2	5.0	1.6	0.0	7.4
Disability manager/coordinator	10.1	9.0	10.3	12.5	7.6	10.7	14.5
Behavioral health/mental health manager/coordinator	7.4	11.8	6.3	7.7	4.6	7.8	2.5
Nutrition manager/coordinator	10.9	9.1	16.8	11.3	16.8	10.1	12.2
Culinary or food services staff	2.1	0.0	3.9	3.2	0.0	3.5	0.0
Receptionist or office staff	5.4	4.9	2.7	3.6	7.9	11.2	2.5
Bus driver or related transportation	3.4	5.1	1.3	0.9	3.1	8.1	2.4
Director, associate director, or other program manager	11.3	9.2	5.1	17.6	15.5	8.3	2.5
Number of health managers	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.6 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.7. Health Manager Sites Responsible for, Weekly Hours, and Annual Weeks Worked: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Sites health manager Is responsible for							
Mean	10.7	6.1	10.5	13.4	13.3	10.4	11.0
Median	6.0	4.0	4.0	8.0	8.0	6.0	7.0
Percentage distribution							
1	17.6	18.3	20.2	11.5	13.4	14.3	18.4
2	7.9	10.1	14.3	4.9	1.9	7.3	7.0
3 to 5	20.8	29.3	24.7	18.1	16.3	23.5	19.6
6 to 10	22.5	26.3	19.1	24.4	26.8	27.8	18.2
11 to 15	12.4	6.1	7.0	19.4	11.7	15.3	15.2
16 or more	18.8	9.8	14.7	21.7	29.8	11.9	21.6
Hours health manager worked per week							
Mean	38.3	35.5	35.7	39.1	39.8	38.2	38.8
Median	40.0	37.5	37.0	40.0	40.0	40.0	40.0
Percentage distribution							
Up to 19	3.4	5.2	7.8	5.0	1.9	3.3	3.6
20 to 34	9.4	17.4	11.3	5.1	4.9	8.7	4.3
35 to 40	75.7	69.8	73.0	77.3	81.9	77.9	78.9
41 or more	11.5	7.7	7.9	12.6	11.3	10.1	13.2
Weeks health manager worked per year							
Mean	48.6	49.2	49.3	49.1	49.0	48.9	47.7
Median	52.0	52.0	52.0	52.0	52.0	52.0	52.0
Percentage distribution							
Up to 35	4.4	2.4	1.9	2.3	3.7	3.9	6.5
36 to 40	6.5	5.1	5.8	4.5	6.5	6.8	7.5
41 to 45	9.4	11.8	5.7	9.3	9.7	9.6	11.9
46 to 50	15.7	13.9	19.6	19.1	14.1	9.3	11.7
51 or more	64.0	66.8	67.1	64.8	66.0	70.4	62.3
Number of health manager respondents	1,465	80	162	146	220	235	152

Table 3.7. Health Manager Sites Responsible for, Weekly Hours, and Annual Weeks Worked: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Sites health manager is responsible for							
Mean	10.7	9.8	7.5	14.7	10.3	3.7	14.4
Median	6.0	8.0	5.0	10.0	8.0	1.0	6.0
Percentage distribution							
1	17.6	13.3	18.2	11.4	4.5	50.6	15.5
2	7.9	6.6	13.1	6.2	7.2	15.0	2.3
3 to 5	20.8	17.0	27.2	13.9	25.2	16.7	28.1
6 to 10	22.5	23.8	22.9	21.4	27.4	9.1	10.7
11 to 15	12.4	20.4	7.2	11.9	12.5	7.6	9.2
16 or more	18.8	18.9	11.4	35.2	23.1	1.0	34.2
Hours health manager worked per week							
Mean	38.3	38.6	38.1	38.6	38.6	39.3	43.2
Median	40.0	40.0	40.0	40.0	40.0	40.0	40.0
Percentage distribution							
Up to 19	3.4	1.3	1.2	3.1	3.0	0.0	0.0
20 to 34	9.4	11.6	15.8	13.7	13.5	12.8	2.0
35 to 40	75.7	74.4	72.3	69.2	65.4	77.5	64.1
41 or more	11.5	12.7	10.7	14.1	18.1	9.6	33.9
Weeks health manager worked per year							
Mean	48.6	49.5	45.4	49.3	49.0	46.9	48.4
Median	52.0	52.0	50.0	52.0	52.0	52.0	52.0
Percentage distribution							
Up to 35	4.4	2.7	11.2	2.4	1.5	9.6	9.1
36 to 40	6.5	2.9	13.9	6.0	9.2	7.6	4.4
41 to 45	9.4	10.6	15.1	9.3	7.7	6.4	2.3
46 to 50	15.7	15.5	19.1	14.5	25.5	22.3	18.5
51 or more	64.0	68.4	40.8	67.9	56.0	54.1	65.8
Number of health manager respondents	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.8 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.8. Health Manager Salary: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health manager annual salary (% distribution)							
Less than \$20,000	4.5	4.1	6.4	5.4	2.8	6.5	0.8
\$20,001–30,000	18.1	9.6	21.3	15.7	15.9	22.9	19.6
\$30,001–40,000	33.8	27.3	26.1	37.8	37.7	37.7	41.5
\$40,001–50,000	23.3	30.3	21.7	24.8	26.1	18.8	22.8
\$50,001–60,000	12.3	22.0	16.2	8.1	7.9	10.8	10.9
\$60,001–70,000	4.7	4.0	4.0	6.1	7.0	1.9	1.4
\$70,001 or more	3.3	2.7	4.3	2.1	2.7	1.3	3.0
Number of health manager respondents	1,465	80	162	146	220	235	152

Table 3.8. Health Manager Salary: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health manager annual salary (% distribution)							
Less than \$20,000	4.5	6.9	7.0	2.0	3.2	3.6	5.3
\$20,001–30,000	18.1	19.9	24.8	5.9	13.3	28.4	5.2
\$30,001–40,000	33.8	35.2	33.4	16.3	36.3	38.8	20.9
\$40,001–50,000	23.3	28.9	21.5	20.6	25.3	23.1	37.6
\$50,001–60,000	12.3	7.8	8.0	26.4	18.7	3.0	16.0
\$60,001–70,000	4.7	1.3	3.9	15.0	1.6	3.0	5.0
\$70,001 or more	3.3	0.0	1.3	13.8	1.7	0.0	9.9
Number of health manager respondents	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.9 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases.

Percentage distributions might not sum to 100 because of rounding.

Table 3.9. Health Manager Job Satisfaction: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health manager satisfaction with position (% distribution)							
Very satisfied	30.8	31.8	29.8	25.0	35.7	32.1	39.4
Satisfied	43.9	33.2	44.5	49.5	40.8	42.4	49.1
Neutral	20.0	25.1	22.7	16.5	17.3	18.4	10.9
Dissatisfied	4.8	8.5	2.4	7.5	5.7	6.7	0.7
Not at all satisfied	0.6	1.4	0.6	1.5	0.5	0.4	0.0
Number of health manager respondents	1,465	80	162	146	220	235	152

Table 3.9. Health Manager Job Satisfaction: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health manager satisfaction with position (% distribution)							
Very satisfied	30.8	28.9	33.7	24.2	24.2	29.0	25.8
Satisfied	43.9	38.2	39.1	42.8	50.2	46.0	57.1
Neutral	20.0	28.7	22.1	30.4	19.3	17.2	17.0
Dissatisfied	4.8	2.7	5.1	1.7	6.3	7.7	0.0
Not at all satisfied	0.6	1.4	0.0	0.8	0.0	0.0	0.0
Number of health manager respondents	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.10 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 3.10. Health Manager Job Challenges: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Conditions that make health manager job harder							
Average number reported (N)	4.3	4.8	3.6	4.6	4.4	4.5	4.2
Percentage for each condition (%)							
<u>Related to job or resources</u>							
Time constraints	62.4	66.7	54.5	68.8	62.2	63.6	55.6
Not enough funds for supplies and activities to support health services area	27.7	40.3	31.6	30.3	27.7	27.7	21.2
Lack of support staff	23.2	24.4	18.7	30.6	28.0	21.4	20.3
Not enough health training for HS/EHS staff	21.6	28.7	16.4	23.2	25.2	21.2	22.1
Not directly responsible for supervising staff that support the health team	21.0	22.5	11.5	22.3	21.5	21.8	17.1
Not enough training for me (the health manager)	19.3	19.2	18.0	19.9	20.2	15.1	24.5
Not enough support from program leadership for health services area/ organizational culture does not prioritize health	13.2	21.8	5.1	16.5	14.8	15.3	11.4
Poorly defined job responsibilities	9.3	8.3	6.7	12.8	9.3	11.9	4.1
Not enough support from the HSAC	6.5	8.3	4.1	6.9	6.4	6.7	7.2
Too few opportunities to communicate with program director	2.8	7.9	1.2	3.5	3.2	3.1	1.3
<u>Related to families and children served</u>							
Parents/guardians not understanding importance of screening/ treatment/follow-up	66.1	70.1	63.6	64.1	63.4	71.1	74.1
Parent/guardian resistance or reluctance to speak with staff about health issues	29.4	32.8	31.6	30.1	28.4	28.0	30.5
Too little time with families or inability to maintain sustained contact	20.2	23.1	16.5	20.6	21.1	22.8	21.8
Difficulty accessing health and social service providers on behalf of families	17.2	6.5	15.1	15.2	16.7	21.2	12.3
Having enough resources to serve health needs of children who do not qualify for Part B and C assistance	14.6	9.5	8.2	12.6	15.9	18.4	16.8
Difficulty communicating with families due to language or cultural barriers	13.9	21.0	12.2	14.9	14.2	12.5	12.2
Lack of materials at the appropriate literacy/health literacy/reading level	11.9	24.5	9.9	13.5	11.2	10.7	8.2
Difficulties related to undocumented children and families	11.2	6.9	8.8	11.4	8.4	9.2	13.3
Difficulty enrolling families in appropriate health insurance program	9.9	2.8	4.8	8.0	15.2	9.2	11.8
<u>Related to policies</u>							
Administrative requirements from OHS	12.5	16.4	5.5	15.9	7.8	16.7	11.4
State or local policies	4.3	2.7	4.3	2.9	4.5	6.8	3.9
Number of health managers	1,465	80	162	146	220	235	152

Table 3.10. Health Manager Job Challenges: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Conditions that make health manager job harder							
Average number reported (<i>N</i>)	4.3	4.4	4.3	4.6	4.6	4.2	4.1
Percentage for each condition (%)							
<u>Related to job or resources</u>							
Time constraints	62.4	55.5	65.0	71.5	71.7	57.9	63.1
Not enough funds for supplies and activities to support health services area	27.7	24.0	27.5	24.1	24.2	30.3	23.2
Lack of support staff	23.2	18.5	13.5	32.6	22.2	19.3	23.1
Not enough health training for HS/EHS staff	21.6	20.1	15.1	22.8	31.0	17.0	19.0
Not directly responsible for supervising staff that support the health team	21.0	26.0	19.1	34.1	29.8	9.8	29.5
Not enough training for me (the health manager)	19.3	21.1	13.6	15.4	20.8	27.5	20.6
Not enough support from program leadership for health services area/ organizational culture does not prioritize health	13.2	8.1	11.1	13.2	23.5	9.9	14.0
Poorly defined job responsibilities	9.3	10.7	7.5	9.8	10.0	10.2	4.7
Not enough support from the HSAC	6.5	3.8	7.2	8.0	7.4	7.0	7.6
Too few opportunities to communicate with program director	2.8	0.0	4.7	4.9	2.8	0.0	4.7
<u>Related to families and children served</u>							
Parents/guardians not understanding importance of screening/ treatment/follow-up	66.1	67.3	74.5	57.5	43.2	76.3	48.3
Parent/guardian resistance or reluctance to speak with staff about health issues	29.4	28.7	39.5	22.3	21.4	38.6	10.4
Too little time with families or inability to maintain sustained contact	20.2	19.6	23.5	13.5	10.0	25.8	13.7
Difficulty accessing health and social service providers on behalf of families	17.2	22.2	14.5	21.1	19.2	20.3	20.0
Having enough resources to serve health needs of children who do not qualify for Part B and C assistance	14.6	17.1	18.7	12.3	8.7	16.3	11.4
Difficulty communicating with families due to language or cultural barriers	13.9	27.9	13.7	18.8	7.7	2.6	13.6
Lack of materials at the appropriate literacy/health literacy/reading level	11.9	6.4	9.4	10.5	23.7	16.4	11.2
Difficulties related to undocumented children and families	11.2	13.0	14.7	23.4	15.2	1.5	17.7
Difficulty enrolling families in appropriate health insurance program	9.9	15.5	9.7	8.6	10.5	8.1	17.9
<u>Related to policies</u>							
Administrative requirements from OHS	12.5	14.2	12.0	12.7	20.5	11.4	15.8
State or local policies	4.3	4.0	3.6	6.4	4.6	0.0	2.9
Number of health managers	1,465	81	87	128	69	76	46

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 3.11 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

4. Staffing and Professional Development for the Health Services Area

In this section, we report on how the Head Start health services area is staffed and then turn to the health-related professional development supports available to health managers and others. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 4.1 reports results in total and by region for the following questions from the Health Manager Survey:

- STF04. Aside from your responsibilities as Health Manager, do you have other responsibilities with this EHS/HS program?
- STF05. Other than your responsibilities as a health manager, what other responsibilities do you have with EHS/HS?
- STF06. What percentage of the hours that you work for EHS/HS is spent managing the health service area (this can include time planning health activities, supervising other health staff, maintaining budgets, etc.)?

Table 4.2 reports results in total and by region for the following questions from the Health Manager Survey:

- STF11. Pick the sentence that best describes the languages spoken and understood by EHS/HS health staff.
- STF12. Do you have teachers, staff members, or consultants who provide guidance on ethnic customs, culture, traditions and values that may relate to the health, behavioral health, and oral health of the children and families in your program?

Table 4.3 reports results in total and by region for the following questions from the Health Manager Survey:

- PDV01. First think about training and other professional development activities you have had in the past three years. For each topic, please note whether the training was available and if you took it.

Table 4.4 reports results in total and by region for the following questions from the Health Manager Survey:

Methods

- HS/EHS programs are the unit of analysis.
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (module 1) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Four in Karoly et al. (2016) for additional results.

- PDV04. In the past year, how many times did you connect with health managers in other EHS/HS programs to discuss challenges, share strategies and lessons learned, or to seek advice about your program? Note: this can be via phone, email, on-line or in person (e.g., at conferences).

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

Across all HS/EHS programs, nearly 30 percent of programs have a health manager that is exclusively dedicated to the role. Another 33 percent of health managers have one other role, while the residual 38 percent served in two or more other roles.

For health managers who have another role, the most common position is nutrition manager/coordinator (54 percent), followed by behavioral and mental health manager/coordinator (19 percent) and disability manager/coordinator (17 percent)—all roles related to the health services area that are referenced directly or indirectly in the Head Start performance standards (see Appendix A in Karoly et al., 2016). In contrast, it is very rare that the health manager also serves as a classroom teacher or teacher aid (combinations reported for fewer than 2 percent of programs).

Health managers with more than one role were asked to report the percentage of time devoted to the health manager role and responses ranged from 1 percent to 100 percent. Among all HS/EHS programs, an average of 69 percent of the health manager's time is devoted to the health services area when the position is shared with other job titles. At the median, the proportion of time for the health manager role reaches 75 percent and 10 percent report that all time (100 percent) was for the health services area despite having multiple roles.

Because programs serve diverse populations, linguistic and cultural competence on the part of HS/EHS staff are vital. About one-half of HS/EHS programs reported being able to communicate in all relevant primary languages spoken by the children and families they serve. The vast majority (80 percent) of programs reported having the required cultural expertise vested in their staff or consultants.

Health managers typically receive training on a wide array of topics pertaining to physical and oral health, behavioral health and developmental delay, and prevention and wellness, although training on some topics is more prevalent than for others. When training

does not occur, it is most often because it is not available or not applicable. Beyond topic-based training, health managers in interviews also spoke of the need for orientation supports for those new to the health manager role.

For the most part, health managers do interact with health managers in other programs, with the modal interaction being one or two connections a year. However, health managers in 16 percent of HS/EHS programs did not have any connections with a fellow health manager in the previous year.

Table 4.1. Health Manager Roles: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health manager roles (% distribution)							
HM role only	29.1	37.6	38.4	27.7	26.6	26.0	26.8
HM role and 1 other role	32.9	40.6	32.7	31.4	34.1	38.8	34.1
HM role and 2 or more other roles	38.0	21.8	28.9	40.9	39.4	35.2	39.1
If other roles, role(s) are (%)							
Teacher	0.9	0.0	0.7	0.0	0.6	0.0	2.0
Teacher's/instructional aide	1.7	0.0	3.1	0.4	0.0	0.7	0.9
Education manager/coordinator	4.8	4.3	7.7	3.8	3.4	4.3	2.1
Family service worker/home visitor	9.7	5.2	10.2	13.9	8.8	4.6	12.8
Outreach staff/recruiter/enrollment manager/coordinator	8.1	12.6	11.8	5.4	6.4	6.1	9.7
Counselor	1.5	0.0	4.6	0.0	0.0	0.6	0.9
Disability manager/coordinator	17.3	1.7	13.7	14.0	20.3	18.8	16.8
Parent-involvement manager/coordinator	7.1	3.6	10.2	8.4	8.6	3.8	3.4
Behavioral/mental health manager/coordinator	19.0	4.2	6.7	19.2	22.9	20.5	28.1
Nutrition manager/coordinator	54.0	60.5	46.3	53.7	50.0	64.7	45.0
Culinary or food services staff	9.2	14.3	10.5	18.4	6.1	5.3	5.0
Receptionist/office staff	5.3	2.5	5.0	0.0	5.1	3.8	8.5
Bus driver or related transportation	3.9	0.0	2.9	2.6	5.1	2.6	3.8
Director, associate director, or other program manager	11.0	3.0	15.0	9.0	5.0	8.5	11.1
If other roles, share of time for health services area							
Mean %	68.6	71.4	62.4	66.2	81.4	66.4	72.7
Median %	75.0	80.0	70.0	75.0	70.0	75.0	80.0
Percentage distribution (%)							
Up to 30 percent	14.2	8.8	21.2	14.7	15.2	12.5	6.3
31 to 50 percent	21.7	17.5	23.3	24.6	25.1	19.0	22.0
51 to 70 percent	11.7	13.6	5.5	5.2	12.2	16.1	9.6
71 to 80 percent	19.8	16.2	19.1	27.2	14.8	21.6	20.9
81 to 90 percent	15.4	22.4	14.6	11.2	15.0	17.4	14.5
91 to 99 percent	6.7	6.6	3.8	9.0	9.6	4.2	10.6
100 percent	10.3	15.0	12.4	8.1	8.1	9.3	16.1
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 4.1. Health Manager Roles: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health manager roles (% distribution)							
HM role only	29.1	30.6	29.3	32.2	30.0	15.7	43.8
HM role and 1 other role	32.9	28.1	32.6	26.7	34.5	23.4	33.2
HM role and 2 or more other roles	38.0	41.2	38.0	41.1	35.5	60.9	23.0
If other roles, role(s) are (%)							
Teacher	0.9	0.0	1.2	2.6	2.8	1.6	0.0
Teacher's/instructional aide	1.7	1.1	0.0	2.2	2.8	8.4	0.0
Education manager/coordinator	4.8	1.1	2.4	7.8	7.4	8.7	0.0
Family service worker/home visitor	9.7	11.9	6.8	7.5	0.0	22.6	2.9
Outreach staff/recruiter/enrollment manager/coordinator	8.1	9.9	4.1	7.0	4.7	14.3	0.4
Counselor	1.5	3.3	2.7	1.5	2.8	3.5	0.0
Disability manager/coordinator	17.3	23.9	13.4	21.6	9.4	21.6	20.3
Parent-involvement manager/coordinator	7.1	5.3	2.8	7.0	9.9	15.3	0.4
Behavioral/mental health manager/coordinator	19.0	22.2	11.1	19.4	12.8	25.4	15.0
Nutrition manager/coordinator	54.0	50.7	66.8	55.9	62.2	45.4	60.8
Culinary or food services staff	9.2	6.5	17.8	7.6	5.7	15.8	0.0
Receptionist/office staff	5.3	7.9	1.2	5.4	0.0	16.3	0.0
Bus driver or related transportation	3.9	1.6	0.0	0.0	0.0	17.6	5.0
Director, associate director, or other program manager	11.0	13.9	16.6	19.3	7.8	15.3	10.2
If other roles, share of time for health services area							
Mean %	68.6	69.8	69.3	63.6	63.1	60.5	72.0
Median %	75.0	80.0	75.0	70.0	75.0	60.0	75.0
Percentage distribution (%)							
Up to 30 percent	14.2	15.8	7.4	18.7	11.9	21.0	0.0
31 to 50 percent	21.7	14.7	21.1	16.5	22.2	27.2	24.5
51 to 70 percent	11.7	7.8	11.5	19.8	12.7	9.0	23.5
71 to 80 percent	19.8	17.4	28.8	13.4	42.2	14.4	14.6
81 to 90 percent	15.4	22.9	19.6	18.7	3.8	9.6	17.5
91 to 99 percent	6.7	10.9	3.5	5.5	2.2	6.4	6.3
100 percent	10.3	10.6	8.1	7.4	4.9	12.4	13.5
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 4.1 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases and percentage distributions might not sum to 100 because of rounding.

Table 4.2. Language and Cultural Competence: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Languages spoken and understood by HS/EHS staff (% distribution)							
All primary languages of children and families	53.1	41.8	68.8	43.3	50.4	46.4	57.7
Some primary languages of children and families	46.7	58.2	31.2	56.7	49.0	53.6	42.3
No primary languages of children and families	0.2	0.0	0.0	0.0	0.6	0.0	0.0
Program has teachers, staff members, or consultants who provide guidance on ethnic customs, culture, traditions and values that may relate to the health, behavioral health, and oral health of the children and families in the program (% distribution)							
Yes	79.3	75.0	81.6	72.2	81.6	80.0	77.7
No	15.1	14.8	13.9	18.8	14.7	14.2	16.8
Don't know	5.6	10.3	4.5	9.0	3.8	5.8	5.5
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 4.2. Language and Cultural Competence: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Languages spoken and understood by HS/EHS staff (% distribution)							
All primary languages of children and families	53.1	30.7	50.2	48.3	46.8	85.6	53.1
Some primary languages of children and families	46.7	69.3	49.8	50.9	53.2	14.4	46.9
No primary languages of children and families	0.2	0.0	0.0	0.7	0.0	0.0	0.0
Program has teachers, staff members, or consultants who provide guidance on ethnic customs, culture, traditions and values that may relate to the health, behavioral health, and oral health of the children and families in the program (% distribution)							
Yes	79.3	70.6	78.7	80.5	83.5	82.3	87.6
No	15.1	19.7	17.9	15.5	6.8	14.4	9.0
Don't know	5.6	9.7	3.3	4.0	9.8	3.3	3.5
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 4.6 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases and percentage distributions might not sum to 100 because of rounding.

Table 4.3. Training for Health Managers in Past Three Years: By Region

Measure	All Regions				Region I			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	43.3	6.1	42.2	8.4
Overweight and obesity	68.4	9.0	18.1	4.5	67.6	14.7	16.0	1.6
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	23.2	9.0	60.2	7.6
Asthma	62.9	10.3	22.9	3.9	67.7	5.8	24.7	1.8
Vision conditions	50.3	7.8	36.5	5.4	49.5	3.7	41.0	5.8
Hearing conditions	53.6	7.3	33.5	5.6	50.8	2.5	41.4	5.3
Ear infections	28.9	6.1	54.7	10.4	18.1	1.8	71.0	9.1
Lead poisoning	52.7	7.1	34.4	5.9	45.4	8.1	38.5	8.0
Tuberculosis	24.3	6.6	57.0	12.2	17.8	1.4	69.5	11.2
Anemia	30.6	6.9	53.4	9.1	16.2	1.8	71.4	10.6
Infectious diseases	63.7	4.6	26.1	5.7	56.7	2.5	34.6	6.1
Proper use of medical items	74.4	5.8	14.4	5.5	82.1	6.8	3.3	7.7
Tooth decay or cavities	73.7	4.9	16.1	5.3	76.6	7.4	12.9	3.0
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	89.5	5.3	1.8	3.4
Family violence	60.4	11.2	20.5	7.9	54.7	18.8	22.6	3.9
Substance abuse	52.8	13.0	25.4	8.7	54.6	10.8	27.5	7.2
ADHD or ADD	37.1	15.9	34.6	12.4	26.1	13.6	48.5	11.7
PTSD	24.9	12.6	47.6	14.9	18.7	15.4	53.9	12.1
Depression	39.0	12.9	35.2	12.9	27.1	16.2	46.5	10.1
Anxiety	30.0	12.8	43.0	14.3	19.0	15.8	53.5	11.7
Autism spectrum disorders	45.1	19.4	25.3	10.2	40.8	30.0	20.1	9.0
Developmental delays	47.0	16.9	25.5	10.5	40.8	25.9	22.7	10.6
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	55.6	4.8	34.7	5.0
General child development	65.2	11.1	18.8	4.9	49.9	16.2	26.6	7.2
Oral hygiene	79.9	3.9	12.4	3.8	73.8	5.0	19.2	1.9
Immunizations	65.8	6.5	22.7	4.9	68.0	9.3	19.2	3.5
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	83.9	7.7	6.9	1.5
Physical activity or fitness	72.6	9.1	13.7	4.6	79.4	10.2	8.5	2.0
Food safety	65.9	15.2	12.3	6.6	55.9	24.7	12.8	6.5
Injury prevention and safety	59.4	7.6	25.7	7.4	54.4	5.5	32.6	7.5
CPR and other first aid	90.4	6.9	1.1	1.6	93.0	7.0	0.0	0.0
Preventing spread of disease	87.7	3.0	6.8	2.5	84.2	6.1	6.9	2.8
Head lice	54.7	6.0	32.6	6.7	40.4	3.0	48.6	7.9
Bed bugs	40.6	7.6	41.6	10.2	42.8	6.1	45.4	5.6
Environmental concerns	58.3	6.4	28.0	7.2	58.5	7.8	30.0	3.7

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	26.6	20.2	35.0	18.2
Emergency preparedness	73.1	7.0	15.8	4.0	68.5	9.6	20.5	1.4
Universal precautions	83.3	2.7	10.0	4.0	87.8	4.5	5.8	1.9
Health literacy communication	57.9	5.8	28.0	8.3	49.3	6.2	37.7	6.8
Number of health manager respondents		1,465				80		
Number of programs		1,902				110		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region II			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	42.8	8.2	39.3	9.7
Overweight and obesity	68.4	9.0	18.1	4.5	69.2	8.6	20.2	2.0
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	39.7	7.0	45.7	7.6
Asthma	62.9	10.3	22.9	3.9	71.5	8.1	15.9	4.5
Vision conditions	50.3	7.8	36.5	5.4	39.4	8.8	48.9	2.8
Hearing conditions	53.6	7.3	33.5	5.6	46.8	9.1	40.5	3.6
Ear infections	28.9	6.1	54.7	10.4	30.1	8.0	53.9	8.0
Lead poisoning	52.7	7.1	34.4	5.9	71.8	6.3	20.3	1.5
Tuberculosis	24.3	6.6	57.0	12.2	32.5	6.4	50.3	10.8
Anemia	30.6	6.9	53.4	9.1	40.6	8.5	45.0	5.8
Infectious diseases	63.7	4.6	26.1	5.7	69.3	5.9	21.4	3.4
Proper use of medical items	74.4	5.8	14.4	5.5	71.8	10.0	9.8	8.5
Tooth decay or cavities	73.7	4.9	16.1	5.3	72.5	3.7	20.7	3.1
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	93.0	3.5	2.5	1.0
Family violence	60.4	11.2	20.5	7.9	62.3	13.3	19.5	4.8
Substance abuse	52.8	13.0	25.4	8.7	46.9	15.9	29.9	7.3
ADHD or ADD	37.1	15.9	34.6	12.4	37.0	20.3	32.4	10.4
PTSD	24.9	12.6	47.6	14.9	24.3	14.4	50.2	11.0
Depression	39.0	12.9	35.2	12.9	37.6	16.5	34.8	11.1
Anxiety	30.0	12.8	43.0	14.3	30.0	14.9	43.9	11.2
Autism spectrum disorders	45.1	19.4	25.3	10.2	48.8	19.5	24.7	7.0
Developmental delays	47.0	16.9	25.5	10.5	51.3	14.7	26.1	7.9
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	0.0	72.9	5.8	18.7
General child development	65.2	11.1	18.8	4.9	0.0	69.6	11.4	15.9
Oral hygiene	79.9	3.9	12.4	3.8	0.0	80.9	2.7	12.7
Immunizations	65.8	6.5	22.7	4.9	0.0	67.9	6.6	22.5
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	0.0	83.7	4.5	10.4
Physical activity or fitness	72.6	9.1	13.7	4.6	0.0	70.2	9.8	17.9
Food safety	65.9	15.2	12.3	6.6	0.0	61.7	21.1	14.3
Injury prevention and safety	59.4	7.6	25.7	7.4	0.0	61.7	10.2	23.9
CPR and other first aid	90.4	6.9	1.1	1.6	0.0	94.1	5.9	0.0
Preventing spread of disease	87.7	3.0	6.8	2.5	0.0	86.2	5.4	8.0
Head lice	54.7	6.0	32.6	6.7	0.0	54.3	5.6	35.7
Bed bugs	40.6	7.6	41.6	10.2	0.0	51.2	6.4	37.6
Environmental concerns	58.3	6.4	28.0	7.2	0.0	63.7	8.2	24.4

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	0.0	32.7	16.1	41.3
Emergency preparedness	73.1	7.0	15.8	4.0	0.0	71.6	7.6	17.8
Universal precautions	83.3	2.7	10.0	4.0	0.0	79.4	2.3	12.6
Health literacy communication	57.9	5.8	28.0	8.3	0.0	52.4	7.6	33.0
Number of health manager respondents		1,465					162	
Number of programs		1,902					200	

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region III			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	49.3	10.0	28.8	11.9
Overweight and obesity	68.4	9.0	18.1	4.5	79.5	6.5	10.0	4.0
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	38.5	6.7	45.8	9.0
Asthma	62.9	10.3	22.9	3.9	69.7	9.2	18.6	2.5
Vision conditions	50.3	7.8	36.5	5.4	41.5	6.6	44.4	7.5
Hearing conditions	53.6	7.3	33.5	5.6	41.9	8.6	42.0	7.5
Ear infections	28.9	6.1	54.7	10.4	29.1	6.7	54.0	10.3
Lead poisoning	52.7	7.1	34.4	5.9	56.8	4.9	31.1	7.2
Tuberculosis	24.3	6.6	57.0	12.2	18.9	9.1	58.9	13.1
Anemia	30.6	6.9	53.4	9.1	32.0	6.9	51.6	9.5
Infectious diseases	63.7	4.6	26.1	5.7	75.5	3.4	14.6	6.5
Proper use of medical items	74.4	5.8	14.4	5.5	76.5	11.0	8.7	3.8
Tooth decay or cavities	73.7	4.9	16.1	5.3	77.7	4.9	12.4	4.9
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	92.6	2.7	0.0	4.7
Family violence	60.4	11.2	20.5	7.9	58.2	8.3	19.4	14.1
Substance abuse	52.8	13.0	25.4	8.7	63.5	9.3	14.1	13.1
ADHD or ADD	37.1	15.9	34.6	12.4	44.8	15.2	28.2	11.8
PTSD	24.9	12.6	47.6	14.9	25.8	14.7	43.5	16.0
Depression	39.0	12.9	35.2	12.9	46.5	10.9	29.0	13.6
Anxiety	30.0	12.8	43.0	14.3	37.9	12.7	35.7	13.7
Autism spectrum disorders	45.1	19.4	25.3	10.2	44.6	20.2	22.2	13.0
Developmental delays	47.0	16.9	25.5	10.5	51.5	16.5	16.9	15.1
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	79.1	4.4	12.1	4.3
General child development	65.2	11.1	18.8	4.9	66.5	15.2	8.3	10.0
Oral hygiene	79.9	3.9	12.4	3.8	82.5	3.6	9.7	4.2
Immunizations	65.8	6.5	22.7	4.9	64.8	10.5	18.4	6.2
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	87.4	4.0	4.8	3.8
Physical activity or fitness	72.6	9.1	13.7	4.6	78.6	9.3	7.6	4.5
Food safety	65.9	15.2	12.3	6.6	62.7	18.2	9.5	9.7
Injury prevention and safety	59.4	7.6	25.7	7.4	63.7	6.8	16.5	13.0
CPR and other first aid	90.4	6.9	1.1	1.6	86.7	9.1	2.3	1.9
Preventing spread of disease	87.7	3.0	6.8	2.5	92.6	1.0	3.7	2.8
Head lice	54.7	6.0	32.6	6.7	60.2	9.2	23.6	7.0
Bed bugs	40.6	7.6	41.6	10.2	55.4	9.7	26.2	8.6
Environmental concerns	58.3	6.4	28.0	7.2	64.5	4.4	22.3	8.8

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	32.6	22.1	27.1	18.3
Emergency preparedness	73.1	7.0	15.8	4.0	78.8	8.3	9.4	3.5
Universal precautions	83.3	2.7	10.0	4.0	88.2	1.2	7.5	3.1
Health literacy communication	57.9	5.8	28.0	8.3	58.0	3.7	28.0	10.3
Number of health manager respondents		1,465				146		
Number of programs		1,902				181		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region IV			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	47.2	7.7	37.0	8.1
Overweight and obesity	68.4	9.0	18.1	4.5	64.8	12.1	20.1	3.0
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	37.3	7.3	47.9	7.5
Asthma	62.9	10.3	22.9	3.9	65.7	11.3	19.6	3.4
Vision conditions	50.3	7.8	36.5	5.4	45.0	5.1	42.2	7.7
Hearing conditions	53.6	7.3	33.5	5.6	52.7	6.2	33.2	8.0
Ear infections	28.9	6.1	54.7	10.4	31.2	5.4	51.7	11.6
Lead poisoning	52.7	7.1	34.4	5.9	49.1	7.4	38.4	5.1
Tuberculosis	24.3	6.6	57.0	12.2	18.0	7.2	60.8	14.0
Anemia	30.6	6.9	53.4	9.1	37.5	5.7	48.5	8.2
Infectious diseases	63.7	4.6	26.1	5.7	58.8	3.6	31.9	5.7
Proper use of medical items	74.4	5.8	14.4	5.5	82.1	2.6	11.3	4.0
Tooth decay or cavities	73.7	4.9	16.1	5.3	70.2	5.0	19.8	5.0
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	95.1	2.1	1.5	1.4
Family violence	60.4	11.2	20.5	7.9	65.7	9.8	17.9	6.5
Substance abuse	52.8	13.0	25.4	8.7	57.3	13.1	22.8	6.8
ADHD or ADD	37.1	15.9	34.6	12.4	46.0	14.6	30.5	8.8
PTSD	24.9	12.6	47.6	14.9	26.2	9.4	50.9	13.6
Depression	39.0	12.9	35.2	12.9	41.5	9.7	36.3	12.5
Anxiety	30.0	12.8	43.0	14.3	34.6	8.6	42.0	14.8
Autism spectrum disorders	45.1	19.4	25.3	10.2	48.8	16.8	25.7	8.7
Developmental delays	47.0	16.9	25.5	10.5	49.8	13.6	27.9	8.7
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	81.3	2.8	13.4	2.5
General child development	65.2	11.1	18.8	4.9	71.8	9.1	16.7	2.5
Oral hygiene	79.9	3.9	12.4	3.8	77.4	4.5	13.6	4.5
Immunizations	65.8	6.5	22.7	4.9	63.4	3.5	29.0	4.1
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	82.2	6.3	10.6	0.9
Physical activity or fitness	72.6	9.1	13.7	4.6	73.9	7.4	15.7	3.0
Food safety	65.9	15.2	12.3	6.6	65.4	13.3	17.3	4.0
Injury prevention and safety	59.4	7.6	25.7	7.4	58.6	5.4	28.1	8.0
CPR and other first aid	90.4	6.9	1.1	1.6	89.6	8.6	1.2	0.6
Preventing spread of disease	87.7	3.0	6.8	2.5	90.1	0.6	7.5	1.8
Head lice	54.7	6.0	32.6	6.7	54.5	7.3	31.1	7.1
Bed bugs	40.6	7.6	41.6	10.2	37.8	7.6	42.4	12.1
Environmental concerns	58.3	6.4	28.0	7.2	57.3	3.6	31.5	7.6

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	33.8	14.5	30.5	21.1
Emergency preparedness	73.1	7.0	15.8	4.0	74.4	4.8	15.9	4.9
Universal precautions	83.3	2.7	10.0	4.0	83.3	2.8	10.1	3.8
Health literacy communication	57.9	5.8	28.0	8.3	62.9	6.5	23.6	7.0
Number of health manager respondents		1,465				220		
Number of programs		1,902				299		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region V			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	38.5	11.3	38.6	11.7
Overweight and obesity	68.4	9.0	18.1	4.5	68.5	6.9	18.1	6.5
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	29.9	5.5	54.3	10.2
Asthma	62.9	10.3	22.9	3.9	60.3	11.5	23.1	5.1
Vision conditions	50.3	7.8	36.5	5.4	62.8	10.9	22.6	3.8
Hearing conditions	53.6	7.3	33.5	5.6	60.9	6.4	28.4	4.3
Ear infections	28.9	6.1	54.7	10.4	30.2	5.0	54.4	10.3
Lead poisoning	52.7	7.1	34.4	5.9	54.1	8.3	32.2	5.4
Tuberculosis	24.3	6.6	57.0	12.2	24.1	5.9	57.1	12.9
Anemia	30.6	6.9	53.4	9.1	26.3	7.7	54.6	11.4
Infectious diseases	63.7	4.6	26.1	5.7	64.4	5.9	22.0	7.7
Proper use of medical items	74.4	5.8	14.4	5.5	71.8	7.1	16.2	4.9
Tooth decay or cavities	73.7	4.9	16.1	5.3	77.7	4.7	13.7	3.9
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	93.2	2.7	2.6	1.5
Family violence	60.4	11.2	20.5	7.9	55.1	13.8	22.8	8.2
Substance abuse	52.8	13.0	25.4	8.7	50.0	12.7	28.3	9.0
ADHD or ADD	37.1	15.9	34.6	12.4	35.7	18.5	30.6	15.3
PTSD	24.9	12.6	47.6	14.9	24.7	14.5	45.6	15.2
Depression	39.0	12.9	35.2	12.9	38.9	15.2	32.3	13.6
Anxiety	30.0	12.8	43.0	14.3	30.7	16.8	37.6	14.9
Autism spectrum disorders	45.1	19.4	25.3	10.2	48.7	22.5	19.8	9.0
Developmental delays	47.0	16.9	25.5	10.5	51.3	18.2	19.4	11.0
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	77.5	2.6	16.2	3.7
General child development	65.2	11.1	18.8	4.9	63.2	9.9	20.8	6.1
Oral hygiene	79.9	3.9	12.4	3.8	81.5	3.8	10.8	3.9
Immunizations	65.8	6.5	22.7	4.9	64.0	4.7	23.4	8.0
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	80.8	5.6	8.5	5.1
Physical activity or fitness	72.6	9.1	13.7	4.6	74.5	6.3	12.7	6.5
Food safety	65.9	15.2	12.3	6.6	64.6	15.0	13.3	7.2
Injury prevention and safety	59.4	7.6	25.7	7.4	52.1	9.8	31.5	6.7
CPR and other first aid	90.4	6.9	1.1	1.6	88.0	8.5	1.1	2.3
Preventing spread of disease	87.7	3.0	6.8	2.5	85.0	3.2	8.6	3.1
Head lice	54.7	6.0	32.6	6.7	53.9	5.6	33.1	7.5
Bed bugs	40.6	7.6	41.6	10.2	49.3	6.3	35.9	8.4
Environmental concerns	58.3	6.4	28.0	7.2	57.6	5.2	30.2	7.0

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	37.8	13.8	30.2	18.3
Emergency preparedness	73.1	7.0	15.8	4.0	68.8	9.3	17.1	4.8
Universal precautions	83.3	2.7	10.0	4.0	84.8	2.2	10.0	3.0
Health literacy communication	57.9	5.8	28.0	8.3	60.1	3.8	29.8	6.3
Number of health manager respondents		1,465				235		
Number of programs		1,902				301		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region VI			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	53.3	8.4	29.4	9.0
Overweight and obesity	68.4	9.0	18.1	4.5	69.7	7.5	17.2	5.6
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	37.8	8.0	43.0	11.2
Asthma	62.9	10.3	22.9	3.9	65.6	8.5	21.4	4.5
Vision conditions	50.3	7.8	36.5	5.4	55.3	6.8	30.8	7.1
Hearing conditions	53.6	7.3	33.5	5.6	52.5	8.5	31.4	7.6
Ear infections	28.9	6.1	54.7	10.4	33.6	6.2	48.0	12.2
Lead poisoning	52.7	7.1	34.4	5.9	51.7	4.6	35.0	8.7
Tuberculosis	24.3	6.6	57.0	12.2	29.1	6.4	50.7	13.8
Anemia	30.6	6.9	53.4	9.1	31.8	5.2	51.4	11.6
Infectious diseases	63.7	4.6	26.1	5.7	63.4	5.8	24.1	6.8
Proper use of medical items	74.4	5.8	14.4	5.5	80.4	4.1	12.0	3.5
Tooth decay or cavities	73.7	4.9	16.1	5.3	59.5	7.1	25.0	8.4
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	93.6	1.8	3.8	0.8
Family violence	60.4	11.2	20.5	7.9	67.4	9.2	16.3	7.1
Substance abuse	52.8	13.0	25.4	8.7	56.9	12.8	20.6	9.6
ADHD or ADD	37.1	15.9	34.6	12.4	49.7	9.0	24.6	16.7
PTSD	24.9	12.6	47.6	14.9	27.8	9.1	45.0	18.1
Depression	39.0	12.9	35.2	12.9	39.9	11.1	34.3	14.8
Anxiety	30.0	12.8	43.0	14.3	31.5	10.7	38.7	19.1
Autism spectrum disorders	45.1	19.4	25.3	10.2	48.1	14.0	19.8	18.1
Developmental delays	47.0	16.9	25.5	10.5	49.3	17.5	20.5	12.6
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	76.6	3.5	10.9	9.1
General child development	65.2	11.1	18.8	4.9	75.2	6.7	13.0	5.1
Oral hygiene	79.9	3.9	12.4	3.8	76.8	3.4	13.8	6.0
Immunizations	65.8	6.5	22.7	4.9	76.4	4.5	15.5	3.6
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	84.6	6.2	6.9	2.3
Physical activity or fitness	72.6	9.1	13.7	4.6	71.3	9.5	11.5	7.8
Food safety	65.9	15.2	12.3	6.6	67.9	16.8	8.2	7.1
Injury prevention and safety	59.4	7.6	25.7	7.4	65.8	5.9	17.5	10.8
CPR and other first aid	90.4	6.9	1.1	1.6	95.3	3.7	0.0	1.0
Preventing spread of disease	87.7	3.0	6.8	2.5	86.1	6.4	4.2	3.3
Head lice	54.7	6.0	32.6	6.7	61.9	3.5	26.6	8.0
Bed bugs	40.6	7.6	41.6	10.2	29.3	9.8	42.7	18.2
Environmental concerns	58.3	6.4	28.0	7.2	58.9	7.8	21.0	12.3

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	42.4	9.2	27.0	21.4
Emergency preparedness	73.1	7.0	15.8	4.0	78.1	7.0	9.0	5.9
Universal precautions	83.3	2.7	10.0	4.0	84.9	3.3	6.6	5.1
Health literacy communication	57.9	5.8	28.0	8.3	70.0	6.1	15.1	8.7
Number of health manager respondents		1,465				152		
Number of programs		1,902				190		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region VII			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	33.0	8.2	41.3	17.5
Overweight and obesity	68.4	9.0	18.1	4.5	68.7	6.8	9.7	14.7
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	21.8	6.2	54.1	17.8
Asthma	62.9	10.3	22.9	3.9	63.5	9.2	16.4	10.9
Vision conditions	50.3	7.8	36.5	5.4	50.8	6.0	28.9	14.3
Hearing conditions	53.6	7.3	33.5	5.6	60.5	3.9	21.3	14.3
Ear infections	28.9	6.1	54.7	10.4	24.7	5.1	53.4	16.8
Lead poisoning	52.7	7.1	34.4	5.9	39.4	7.9	40.5	12.2
Tuberculosis	24.3	6.6	57.0	12.2	20.1	2.4	59.0	18.6
Anemia	30.6	6.9	53.4	9.1	20.3	5.6	58.4	15.7
Infectious diseases	63.7	4.6	26.1	5.7	54.5	3.6	30.5	11.4
Proper use of medical items	74.4	5.8	14.4	5.5	68.1	6.8	15.0	10.1
Tooth decay or cavities	73.7	4.9	16.1	5.3	78.2	4.2	6.5	11.1
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	92.1	2.9	1.5	3.5
Family violence	60.4	11.2	20.5	7.9	66.4	6.7	16.7	10.2
Substance abuse	52.8	13.0	25.4	8.7	54.2	11.7	23.8	10.3
ADHD or ADD	37.1	15.9	34.6	12.4	38.8	14.3	32.3	14.6
PTSD	24.9	12.6	47.6	14.9	35.4	10.7	37.3	16.7
Depression	39.0	12.9	35.2	12.9	38.5	11.2	35.7	14.6
Anxiety	30.0	12.8	43.0	14.3	29.1	12.7	42.3	15.9
Autism spectrum disorders	45.1	19.4	25.3	10.2	44.5	15.7	25.0	14.8
Developmental delays	47.0	16.9	25.5	10.5	37.8	17.6	28.6	16.0
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	76.5	2.4	12.9	8.1
General child development	65.2	11.1	18.8	4.9	61.7	11.5	19.1	7.7
Oral hygiene	79.9	3.9	12.4	3.8	85.1	3.5	8.5	2.9
Immunizations	65.8	6.5	22.7	4.9	56.4	11.5	24.7	7.5
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	77.9	4.2	9.7	8.2
Physical activity or fitness	72.6	9.1	13.7	4.6	68.9	13.4	9.4	8.3
Food safety	65.9	15.2	12.3	6.6	48.8	18.9	18.3	14.1
Injury prevention and safety	59.4	7.6	25.7	7.4	54.4	12.6	27.6	5.4
CPR and other first aid	90.4	6.9	1.1	1.6	97.1	0.0	1.5	1.5
Preventing spread of disease	87.7	3.0	6.8	2.5	83.9	4.0	7.0	5.0
Head lice	54.7	6.0	32.6	6.7	43.6	9.1	39.4	7.9
Bed bugs	40.6	7.6	41.6	10.2	32.7	6.7	49.2	11.3
Environmental concerns	58.3	6.4	28.0	7.2	34.6	11.9	39.2	14.3

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	34.6	19.1	31.4	14.8
Emergency preparedness	73.1	7.0	15.8	4.0	65.3	11.4	18.3	5.0
Universal precautions	83.3	2.7	10.0	4.0	86.8	3.7	6.0	3.5
Health literacy communication	57.9	5.8	28.0	8.3	63.6	9.8	18.4	8.2
Number of health manager respondents		1,465				81		
Number of programs		1,902				110		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region VIII			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	38.8	8.3	46.7	6.1
Overweight and obesity	68.4	9.0	18.1	4.5	67.0	7.8	24.3	0.9
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	35.2	6.2	54.3	4.3
Asthma	62.9	10.3	22.9	3.9	55.4	11.1	32.6	0.9
Vision conditions	50.3	7.8	36.5	5.4	48.4	4.0	43.4	4.3
Hearing conditions	53.6	7.3	33.5	5.6	50.5	3.1	40.9	5.5
Ear infections	28.9	6.1	54.7	10.4	31.3	7.5	53.9	7.4
Lead poisoning	52.7	7.1	34.4	5.9	40.7	10.2	46.0	3.1
Tuberculosis	24.3	6.6	57.0	12.2	28.6	3.8	64.8	2.8
Anemia	30.6	6.9	53.4	9.1	27.6	2.9	66.2	3.3
Infectious diseases	63.7	4.6	26.1	5.7	62.0	4.7	31.3	2.1
Proper use of medical items	74.4	5.8	14.4	5.5	82.0	2.7	13.0	2.3
Tooth decay or cavities	73.7	4.9	16.1	5.3	76.8	4.1	16.6	2.5
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	91.3	5.4	2.4	0.9
Family violence	60.4	11.2	20.5	7.9	57.6	12.3	23.6	6.5
Substance abuse	52.8	13.0	25.4	8.7	53.2	10.2	31.1	5.5
ADHD or ADD	37.1	15.9	34.6	12.4	30.2	22.4	39.4	8.0
PTSD	24.9	12.6	47.6	14.9	22.1	10.0	55.5	12.4
Depression	39.0	12.9	35.2	12.9	42.2	11.1	38.4	8.4
Anxiety	30.0	12.8	43.0	14.3	27.2	13.0	50.8	9.1
Autism spectrum disorders	45.1	19.4	25.3	10.2	43.3	20.5	33.1	3.1
Developmental delays	47.0	16.9	25.5	10.5	41.5	16.2	35.3	6.9
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	72.8	3.3	23.0	0.9
General child development	65.2	11.1	18.8	4.9	51.5	15.8	31.0	1.7
Oral hygiene	79.9	3.9	12.4	3.8	82.7	1.2	13.9	2.2
Immunizations	65.8	6.5	22.7	4.9	61.2	11.2	26.7	0.9
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	84.7	1.2	13.2	0.9
Physical activity or fitness	72.6	9.1	13.7	4.6	70.8	11.0	17.3	0.9
Food safety	65.9	15.2	12.3	6.6	77.3	9.1	11.5	2.1
Injury prevention and safety	59.4	7.6	25.7	7.4	50.6	7.7	38.5	3.2
CPR and other first aid	90.4	6.9	1.1	1.6	97.0	2.2	0.0	0.9
Preventing spread of disease	87.7	3.0	6.8	2.5	87.9	1.2	10.1	0.9
Head lice	54.7	6.0	32.6	6.7	49.5	4.0	42.3	4.2
Bed bugs	40.6	7.6	41.6	10.2	30.9	7.2	56.2	5.7
Environmental concerns	58.3	6.4	28.0	7.2	50.2	5.5	43.4	0.9

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	30.0	13.4	39.1	17.5
Emergency preparedness	73.1	7.0	15.8	4.0	71.9	5.4	21.8	0.9
Universal precautions	83.3	2.7	10.0	4.0	89.0	2.0	8.1	0.9
Health literacy communication	57.9	5.8	28.0	8.3	53.6	7.7	35.2	3.6
Number of health manager respondents		1,465					87	
Number of programs		1,902					97	

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region IX			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	29.9	14.8	47.7	7.6
Overweight and obesity	68.4	9.0	18.1	4.5	74.7	12.1	10.4	2.7
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	40.5	12.2	42.1	5.2
Asthma	62.9	10.3	22.9	3.9	63.4	14.1	20.5	2.0
Vision conditions	50.3	7.8	36.5	5.4	63.9	12.7	21.7	1.7
Hearing conditions	53.6	7.3	33.5	5.6	68.8	11.5	18.0	1.7
Ear infections	28.9	6.1	54.7	10.4	26.5	7.9	55.3	10.3
Lead poisoning	52.7	7.1	34.4	5.9	62.2	8.4	25.1	4.4
Tuberculosis	24.3	6.6	57.0	12.2	34.2	12.5	44.6	8.7
Anemia	30.6	6.9	53.4	9.1	36.6	12.0	45.9	5.5
Infectious diseases	63.7	4.6	26.1	5.7	61.9	3.8	30.7	3.7
Proper use of medical items	74.4	5.8	14.4	5.5	67.1	3.0	20.6	9.3
Tooth decay or cavities	73.7	4.9	16.1	5.3	79.5	4.7	7.5	8.2
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	88.5	0.9	3.6	6.9
Family violence	60.4	11.2	20.5	7.9	55.5	10.4	20.7	13.3
Substance abuse	52.8	13.0	25.4	8.7	47.9	14.4	23.8	14.0
ADHD or ADD	37.1	15.9	34.6	12.4	25.1	19.6	37.0	18.3
PTSD	24.9	12.6	47.6	14.9	23.4	19.8	33.9	23.0
Depression	39.0	12.9	35.2	12.9	39.6	15.6	25.4	19.4
Anxiety	30.0	12.8	43.0	14.3	24.3	13.6	40.8	21.3
Autism spectrum disorders	45.1	19.4	25.3	10.2	37.6	23.0	24.7	14.7
Developmental delays	47.0	16.9	25.5	10.5	44.1	20.0	22.2	13.7
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	80.5	6.0	9.5	3.9
General child development	65.2	11.1	18.8	4.9	61.3	16.5	19.1	3.1
Oral hygiene	79.9	3.9	12.4	3.8	80.1	6.9	10.1	3.0
Immunizations	65.8	6.5	22.7	4.9	72.5	9.2	15.5	2.9
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	87.1	5.9	4.5	2.5
Physical activity or fitness	72.6	9.1	13.7	4.6	74.0	7.0	14.3	4.8
Food safety	65.9	15.2	12.3	6.6	65.0	14.1	11.7	9.2
Injury prevention and safety	59.4	7.6	25.7	7.4	63.0	6.8	20.7	9.4
CPR and other first aid	90.4	6.9	1.1	1.6	79.8	13.6	2.3	4.2
Preventing spread of disease	87.7	3.0	6.8	2.5	87.3	3.8	6.0	2.9
Head lice	54.7	6.0	32.6	6.7	50.5	10.0	35.1	4.5
Bed bugs	40.6	7.6	41.6	10.2	36.5	10.5	42.8	10.2
Environmental concerns	58.3	6.4	28.0	7.2	62.8	8.3	22.9	6.0

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	49.4	16.3	18.5	15.7
Emergency preparedness	73.1	7.0	15.8	4.0	80.1	6.6	11.3	2.0
Universal precautions	83.3	2.7	10.0	4.0	81.1	4.7	11.1	3.2
Health literacy communication	57.9	5.8	28.0	8.3	49.8	6.1	32.8	11.3
Number of health manager respondents		1,465				128		
Number of programs		1,902				173		

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region X			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	49.0	5.2	35.2	10.6
Overweight and obesity	68.4	9.0	18.1	4.5	72.2	9.9	14.8	3.1
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	25.6	4.8	56.7	12.8
Asthma	62.9	10.3	22.9	3.9	60.2	15.4	19.6	4.7
Vision conditions	50.3	7.8	36.5	5.4	47.2	11.8	36.6	4.5
Hearing conditions	53.6	7.3	33.5	5.6	59.0	11.3	25.2	4.5
Ear infections	28.9	6.1	54.7	10.4	19.2	7.8	62.1	10.9
Lead poisoning	52.7	7.1	34.4	5.9	43.3	5.7	41.0	10.0
Tuberculosis	24.3	6.6	57.0	12.2	14.1	9.2	64.8	11.9
Anemia	30.6	6.9	53.4	9.1	22.3	9.5	56.9	11.3
Infectious diseases	63.7	4.6	26.1	5.7	50.9	7.1	37.5	4.5
Proper use of medical items	74.4	5.8	14.4	5.5	68.3	4.1	23.2	4.4
Tooth decay or cavities	73.7	4.9	16.1	5.3	76.0	5.4	15.5	3.1
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	86.0	8.3	2.6	3.1
Family violence	60.4	11.2	20.5	7.9	53.2	14.2	24.9	7.7
Substance abuse	52.8	13.0	25.4	8.7	44.9	10.3	38.0	6.7
ADHD or ADD	37.1	15.9	34.6	12.4	33.9	17.0	39.3	9.7
PTSD	24.9	12.6	47.6	14.9	22.4	12.8	56.0	8.8
Depression	39.0	12.9	35.2	12.9	41.9	7.2	39.3	11.6
Anxiety	30.0	12.8	43.0	14.3	32.5	12.5	43.6	11.4
Autism spectrum disorders	45.1	19.4	25.3	10.2	36.1	26.7	28.3	8.9
Developmental delays	47.0	16.9	25.5	10.5	37.8	20.1	34.0	8.1
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	79.2	2.2	14.1	4.5
General child development	65.2	11.1	18.8	4.9	57.3	7.9	29.1	5.8
Oral hygiene	79.9	3.9	12.4	3.8	79.2	3.0	14.6	3.1
Immunizations	65.8	6.5	22.7	4.9	79.2	8.1	8.3	4.4
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	81.0	2.6	12.7	3.6
Physical activity or fitness	72.6	9.1	13.7	4.6	69.8	14.5	12.6	3.1
Food safety	65.9	15.2	12.3	6.6	81.5	2.8	7.3	8.4
Injury prevention and safety	59.4	7.6	25.7	7.4	55.2	7.9	30.2	6.7
CPR and other first aid	90.4	6.9	1.1	1.6	86.0	7.5	3.5	3.1
Preventing spread of disease	87.7	3.0	6.8	2.5	88.6	1.6	5.3	4.4
Head lice	54.7	6.0	32.6	6.7	53.1	4.2	35.2	7.4
Bed bugs	40.6	7.6	41.6	10.2	28.8	8.9	56.6	5.8
Environmental concerns	58.3	6.4	28.0	7.2	57.1	9.0	26.6	7.3

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	44.7	8.0	34.7	12.5
Emergency preparedness	73.1	7.0	15.8	4.0	75.7	4.2	15.5	4.5
Universal precautions	83.3	2.7	10.0	4.0	77.8	0.8	16.9	4.4
Health literacy communication	57.9	5.8	28.0	8.3	65.9	4.0	22.2	7.8
Number of health manager respondents		1,465					69	
Number of programs		1,902					92	

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region XI			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	35.1	17.1	37.9	9.8
Overweight and obesity	68.4	9.0	18.1	4.5	53.4	5.7	36.6	4.3
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	22.5	2.9	67.4	7.2
Asthma	62.9	10.3	22.9	3.9	46.1	5.8	46.8	1.4
Vision conditions	50.3	7.8	36.5	5.4	39.5	2.7	56.2	1.5
Hearing conditions	53.6	7.3	33.5	5.6	42.9	3.0	54.2	0.0
Ear infections	28.9	6.1	54.7	10.4	27.8	2.8	62.8	6.6
Lead poisoning	52.7	7.1	34.4	5.9	34.9	3.1	56.1	5.8
Tuberculosis	24.3	6.6	57.0	12.2	14.0	1.4	72.4	12.3
Anemia	30.6	6.9	53.4	9.1	23.1	1.6	66.8	8.5
Infectious diseases	63.7	4.6	26.1	5.7	68.4	1.5	25.8	4.3
Proper use of medical items	74.4	5.8	14.4	5.5	67.7	1.5	29.3	1.5
Tooth decay or cavities	73.7	4.9	16.1	5.3	69.8	1.5	23.2	5.5
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	92.3	0.8	6.9	0.0
Family violence	60.4	11.2	20.5	7.9	64.0	6.5	25.8	3.7
Substance abuse	52.8	13.0	25.4	8.7	50.8	15.5	29.5	4.3
ADHD or ADD	37.1	15.9	34.6	12.4	30.4	5.9	58.0	5.7
PTSD	24.9	12.6	47.6	14.9	21.3	4.2	62.4	12.1
Depression	39.0	12.9	35.2	12.9	31.9	11.2	50.3	6.5
Anxiety	30.0	12.8	43.0	14.3	24.3	6.5	62.0	7.2
Autism spectrum disorders	45.1	19.4	25.3	10.2	43.1	9.9	44.1	3.0
Developmental delays	47.0	16.9	25.5	10.5	40.9	10.7	43.9	4.5
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	71.7	5.6	19.9	2.8
General child development	65.2	11.1	18.8	4.9	66.0	7.4	23.8	2.8
Oral hygiene	79.9	3.9	12.4	3.8	78.9	1.4	16.9	2.8
Immunizations	65.8	6.5	22.7	4.9	53.0	2.7	37.7	6.5
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	81.4	6.9	10.5	1.2
Physical activity or fitness	72.6	9.1	13.7	4.6	65.8	8.4	19.6	6.2
Food safety	65.9	15.2	12.3	6.6	84.4	5.4	7.1	3.1
Injury prevention and safety	59.4	7.6	25.7	7.4	69.9	2.8	24.3	3.0
CPR and other first aid	90.4	6.9	1.1	1.6	98.2	0.0	1.8	0.0
Preventing spread of disease	87.7	3.0	6.8	2.5	94.1	0.0	5.9	0.0
Head lice	54.7	6.0	32.6	6.7	66.5	2.7	24.0	6.8
Bed bugs	40.6	7.6	41.6	10.2	28.7	2.9	53.2	15.2
Environmental concerns	58.3	6.4	28.0	7.2	59.1	4.4	30.6	6.0

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	21.5	8.9	47.9	21.7
Emergency preparedness	73.1	7.0	15.8	4.0	69.2	0.0	26.4	4.5
Universal precautions	83.3	2.7	10.0	4.0	80.4	0.0	12.6	7.0
Health literacy communication	57.9	5.8	28.0	8.3	47.0	2.9	36.3	13.8
Number of health manager respondents		1,465					76	
Number of programs		1,902					101	

Table 4.3. Training for Health Managers in Past Three Years: By Region, *Continued*

Measure	All Regions				Region XII			
	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable	Had Training	No Training, No Training, But Available	No Training, Not Available	Training Not Applicable
Physical and oral health								
Diabetes	41.9	10.2	37.9	10.0	36.1	18.1	35.3	10.5
Overweight and obesity	68.4	9.0	18.1	4.5	60.1	16.0	15.5	8.4
Underweight, stunting, failure to thrive	33.5	7.2	50.5	8.9	28.4	14.1	48.1	9.4
Asthma	62.9	10.3	22.9	3.9	44.7	17.9	30.4	7.1
Vision conditions	50.3	7.8	36.5	5.4	47.9	15.0	25.4	11.7
Hearing conditions	53.6	7.3	33.5	5.6	53.6	15.0	19.9	11.5
Ear infections	28.9	6.1	54.7	10.4	31.7	13.0	41.9	13.4
Lead poisoning	52.7	7.1	34.4	5.9	51.3	17.9	24.5	6.3
Tuberculosis	24.3	6.6	57.0	12.2	41.5	11.8	35.7	11.0
Anemia	30.6	6.9	53.4	9.1	26.1	17.9	45.0	11.0
Infectious diseases	63.7	4.6	26.1	5.7	64.5	8.2	22.7	4.6
Proper use of medical items	74.4	5.8	14.4	5.5	69.7	8.9	13.5	7.8
Tooth decay or cavities	73.7	4.9	16.1	5.3	80.5	12.3	2.8	4.4
Behavioral health and developmental delay								
Child neglect or abuse	92.4	2.7	2.6	2.4	94.9	0.0	0.0	5.1
Family violence	60.4	11.2	20.5	7.9	56.9	15.7	19.7	7.8
Substance abuse	52.8	13.0	25.4	8.7	50.5	18.0	23.7	7.8
ADHD or ADD	37.1	15.9	34.6	12.4	17.0	26.7	40.9	15.4
PTSD	24.9	12.6	47.6	14.9	22.4	17.3	45.0	15.4
Depression	39.0	12.9	35.2	12.9	33.4	16.0	35.2	15.4
Anxiety	30.0	12.8	43.0	14.3	27.2	17.3	40.1	15.4
Autism spectrum disorders	45.1	19.4	25.3	10.2	32.1	21.3	31.3	15.4
Developmental delays	47.0	16.9	25.5	10.5	40.0	24.4	26.6	9.0
Prevention and wellness								
General health promotion or wellness	76.1	4.0	15.7	4.2	75.8	4.5	13.5	6.2
General child development	65.2	11.1	18.8	4.9	61.6	11.4	20.7	6.3
Oral hygiene	79.9	3.9	12.4	3.8	81.4	9.7	2.8	6.2
Immunizations	65.8	6.5	22.7	4.9	62.4	5.8	25.4	6.3
Nutrition or healthy eating practices	82.9	5.7	8.7	2.8	71.5	19.2	7.6	1.8
Physical activity or fitness	72.6	9.1	13.7	4.6	64.1	19.8	12.5	3.6
Food safety	65.9	15.2	12.3	6.6	60.0	19.2	8.2	12.6
Injury prevention and safety	59.4	7.6	25.7	7.4	56.5	12.7	22.4	8.3
CPR and other first aid	90.4	6.9	1.1	1.6	80.5	11.4	0.0	8.1
Preventing spread of disease	87.7	3.0	6.8	2.5	82.3	0.0	9.4	8.3
Head lice	54.7	6.0	32.6	6.7	57.2	3.6	29.1	10.1
Bed bugs	40.6	7.6	41.6	10.2	38.2	11.2	34.5	16.2
Environmental concerns	58.3	6.4	28.0	7.2	63.0	6.7	20.2	10.1

Prenatal or postpartum issues	35.7	14.5	32.3	17.5	39.2	6.7	39.4	14.8
Emergency preparedness	73.1	7.0	15.8	4.0	72.1	14.1	7.5	6.4
Universal precautions	83.3	2.7	10.0	4.0	66.9	8.0	17.9	7.3
Health literacy communication	57.9	5.8	28.0	8.3	58.0	10.4	21.5	10.1
Number of health manager respondents		1,465				46		
Number of programs		1,902				48		

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 4.9 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases and percentage distributions might not sum to 100 because of rounding.

Table 4.4. Health Manager Connections with Other Health Managers: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Number of times connected with other health managers in past year (% distribution)							
No connections	16.4	8.1	21.1	7.3	16.2	11.9	19.8
1 to 2 times	39.0	31.8	37.1	34.6	48.8	33.7	37.7
3 to 6 times	29.7	31.5	24.1	47.4	25.3	37.4	27.5
7 or more times	14.9	28.6	17.6	10.7	9.7	17.0	15.0
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 4.4. Health Manager Connections with Other Health Managers: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Number of times connected with other health managers in past year (% distribution)							
No connections	16.4	21.4	11.0	9.7	16.6	37.7	20.5
1 to 2 times	39.0	51.4	47.7	33.1	36.4	39.5	48.1
3 to 6 times	29.7	21.2	24.4	35.6	32.1	14.0	19.4
7 or more times	14.9	6.0	16.8	21.6	14.9	8.9	11.9
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 4.10 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases and percentage distributions might not sum to 100 because of rounding.

5. Health Services Advisory Committee

In this section, we present results on the structure, composition, and role of the HSAC. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 5.1 reports results in total and by region for the following questions from the Health Manager Survey:

- HSC01. Do you run more than one HSAC?
- HSC05. Do you share a HSAC with another EHS/HS/MSHS/AIAN program?
- HSC06. With which type of Head Start program do you share the HSAC?

Table 5.2 reports results in total and by region for the following questions from the Health Manager Survey:

- HSC02. How many individuals currently serve on the HSAC for your program?
- HSC03. Of these, how many would you consider to be “active” members? These are individuals who regularly engage in their role as a member of the HSAC.

Table 5.3 reports results in total and by region for the following questions from the Health Manager Survey:

- HSC04. Which of the following groups are represented as members on your HSAC?

Table 5.4 reports results in total and by region for the following questions from the Health Manager Survey:

- HSC08. How often does your HSAC meet?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (module 1) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Five in Karoly et al. (2016) for additional results.

differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

In most HS/EHS programs, the health manager reported managing just one HSAC (73 percent) and most do not share their HSACs with another program (84 percent).

The typical program has an HSAC with 15 members, but it is not uncommon for HSACs to have 20 or more members. On average, health managers reported that 70 percent of HSAC members are active.

There is a wide range of expertise and community stakeholders represented on HSACs. Most common are health care providers (medical and dental), parents and guardians, and HS/EHS administrators. Other frequent categories include other health experts, other HS/EHS staff, and individuals representing other community organizations. Health managers almost universally reported feeling that their HSACs represent the relevant ethnic, cultural, and linguistic backgrounds of the families and children they serve.

The majority of HSACs meet twice a year and regular consultations between the health manager and HSAC members typically take place between meetings.

Table 5.1. HSAC Structure: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Number of HSACs managed (% distribution)							
1	72.9	64.7	57.1	72.4	76.9	70.6	79.2
2 or more	27.1	35.3	42.9	27.6	23.1	29.4	20.8
HSAC shared with another program (% distribution)							
No	83.6	76.2	75.0	84.8	92.1	87.4	90.2
Yes	16.4	23.8	25.0	15.2	7.9	12.6	9.8
If HSAC is shared, type of program (% , more than one may apply)							
With EHS program	64.8	76.5	59.5	63.2	76.0	64.5	59.3
With HS program	73.8	53.2	83.4	77.9	50.4	89.2	80.3
With MSHS program	10.1	0.0	0.0	5.9	19.0	4.7	0.0
With AIAN program	3.1	7.2	0.0	0.0	0.0	0.0	0.0
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 5.1. HSAC Structure: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Number of HSACs managed (% distribution)							
1	72.9	82.3	82.3	71.0	84.0	84.0	57.6
2 or more	27.1	17.7	17.7	29.0	16.0	16.0	42.4
HSAC shared with another program (% distribution)							
No	83.6	90.4	84.5	71.6	70.3	89.1	66.4
Yes	16.4	9.6	15.5	28.4	29.7	10.9	33.6
If HSAC is shared, type of program (% , more than one may apply)							
With EHS program	64.8	64.8	63.4	33.6	75.8	78.5	69.6
With HS program	73.8	73.8	74.7	80.1	73.8	72.6	60.4
With MSHS program	10.1	10.1	0.0	14.3	11.2	25.5	0.0
With AIAN program	3.1	3.1	0.0	0.0	0.0	0.0	53.4
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 5.1 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 5.2. HSAC Size: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Number of HSAC members							
Mean number	19.7	16.9	21.0	20.6	21.9	18.3	21.3
Median number	15.0	18.0	15.0	18.0	20.0	15.0	18.0
Percent distribution (%)							
Up to 10	26.0	22.3	30.2	24.0	18.9	27.9	18.3
11 to 15	24.6	26.2	28.9	20.9	23.0	28.6	22.1
16 to 20	18.0	20.0	18.6	19.1	18.9	15.7	18.9
21 to 25	12.3	24.3	5.8	10.5	16.6	8.9	20.9
26 or more	19.1	7.2	16.4	25.5	22.6	18.9	19.9
Number of active HSAC members							
Mean number	12.9	10.4	13.2	12.4	14.3	12.3	14.6
Median number	10.0	10.0	10.0	10.0	12.0	10.0	12.0
Percentage distribution (%)							
Up to 10	53.3	60.3	63.0	54.6	43.0	55.9	40.4
11 to 15	22.0	25.1	16.1	22.0	24.6	23.1	27.7
16 to 20	13.5	14.5	13.0	11.5	18.4	9.3	14.0
21 to 25	5.8	0.0	03.4	6.3	6.8	6.2	11.8
26 or More	5.4	0.0	4.5	5.6	7.2	5.6	6.1
Share of members who are active							
Mean percentage (%)	70.0	65.5	79.7	62.0	70.1	71.1	69.2
Median percentage (%)	66.7	66.7	66.7	62.5	66.7	69.2	70.0
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 5.2. HSAC Size: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Number of HSAC members							
Mean number	19.7	21.6	15.6	19.6	22.6	13.9	23.7
Median number	15.0	20.0	15.0	20.0	18.0	10.0	17.0
Percent distribution (%)							
Up to 10	26.0	16.9	26.4	24.5	16.9	57.6	22.9
11 to 15	24.6	19.4	37.5	19.6	28.8	19.2	23.1
16 to 20	18.0	26.0	17.4	20.3	13.5	12.3	13.4
21 to 25	12.3	14.8	11.1	15.7	5.2	4.6	11.0
26 or more	19.1	23.0	7.6	20.0	35.6	6.3	29.6
Number of active HSAC members							
Mean number	12.9	13.9	10.8	13.2	13.3	9.4	16.0
Median number	10.0	12.0	10.0	12.0	10.0	8.0	10.0
Percentage distribution (%)							
Up to 10	53.3	43.6	55.5	45.8	51.3	78.1	55.1
11 to 15	22.0	27.5	32.5	24.6	15.0	8.8	9.9
16 to 20	13.5	15.5	8.8	19.9	19.7	6.5	10.3
21 to 25	5.8	7.3	0.0	4.6	11.5	3.6	5.8
26 or More	5.4	6.2	3.1	5.1	2.4	3.1	18.9
Share of members who are active							
Mean percentage (%)	70.0	66.1	72.0	69.4	62.6	72.4	67.2
Median percentage (%)	66.7	66.7	75.0	68.2	61.5	71.4	71.4
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 5.2 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 5.3. HSAC Member Composition: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Groups represented on HSAC							
Average number reported (<i>N</i>)	11.3	10.7	10.8	11.5	12.0	10.7	12.3
Percentage for each group (%)							
<u>HS/EHS program staff</u>							
Program administrators	87.2	82.8	84.3	92.7	86.2	90.6	89.8
Family service workers	60.8	68.2	69.4	65.7	73.0	50.6	66.6
Teachers, teachers aides, or other classroom staff	28.7	25.9	30.4	34.4	31.2	27.9	47.3
Nutritionists, nutrition experts	80.5	89.4	83.1	81.3	83.4	76.3	85.1
Mental health staff	73.6	66.4	72.1	73.4	81.2	69.0	85.4
Health educators	68.0	57.8	70.4	74.7	65.5	63.3	77.1
Other HS/EHS staff	24.5	21.6	25.1	21.3	28.1	20.8	28.6
<u>Community members</u>							
HS/EHS staff from another program	22.8	23.8	31.6	22.4	15.8	18.3	18.5
Parents/guardians	87.9	88.2	89.7	89.1	92.8	86.7	90.4
Medical care providers	90.2	90.2	85.9	87.4	90.4	88.8	94.4
Oral health care providers	82.8	78.9	71.2	79.7	83.9	80.8	79.7
Behavioral health providers	59.5	45.0	51.0	62.8	71.9	51.3	72.0
Disability specialists	50.0	39.7	53.2	47.8	62.5	45.6	60.5
Migrant health services	6.2	3.0	1.2	1.4	6.9	1.9	6.3
Indian Health Service	8.2	1.7	0.4	0.0	0.0	1.8	5.7
Cultural/community healer	1.8	0.5	0.4	1.5	1.6	0.8	0.7
Public health departments /boards of health	75.7	64.4	57.5	83.1	84.2	81.6	77.1
WIC or other community food or nutrition service	71.4	84.0	67.9	73.8	63.3	76.0	62.1
Part B and C partners	19.8	9.6	15.3	19.9	24.6	20.2	26.0
School district LEA	35.8	23.7	18.6	33.7	51.4	36.4	48.1
Cultural liaisons	2.7	7.0	2.2	0.0	1.6	0.6	2.1
Advocacy groups	19.5	23.9	28.2	21.2	16.4	15.3	24.5
Other social services providers	40.9	39.2	44.5	46.8	43.8	36.9	48.4
Other local government agencies or officials	20.5	12.8	23.8	22.6	26.8	15.4	26.1
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 5.3. HSAC Member Composition: By Region, Continued

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Groups represented on HSAC							
Average number reported (<i>N</i>)	11.3	11.0	10.9	11.8	11.7	10.5	11.4
Percentage for each group (%)							
<u>HS/EHS program staff</u>							
Program administrators	87.2	94.3	79.6	83.6	89.5	85.8	73.8
Family service workers	60.8	41.5	51.0	55.1	52.1	61.3	52.7
Teachers, teachers aides, or other classroom staff	28.7	13.3	22.8	12.9	28.8	28.9	25.4
Nutritionists, nutrition experts	80.5	86.3	71.6	85.8	77.9	65.8	71.4
Mental health staff	73.6	77.5	72.4	70.4	70.1	68.0	64.1
Health educators	68.0	66.0	60.9	69.2	72.0	69.4	65.7
Other HS/EHS staff	24.5	36.8	30.4	25.6	40.5	6.0	19.6
<u>Community members</u>							
HS/EHS staff from another program	22.8	14.0	16.3	42.4	40.1	14.5	21.6
Parents/guardians	87.9	87.8	94.7	89.4	88.0	68.0	86.4
Medical care providers	90.2	91.1	95.1	91.6	93.2	92.4	88.1
Oral health care providers	82.8	95.0	93.8	92.1	89.1	86.9	76.2
Behavioral health providers	59.5	58.9	64.6	54.4	57.9	66.1	46.2
Disability specialists	50.0	43.3	43.9	53.9	30.4	36.0	59.1
Migrant health services	6.2	1.3	3.7	13.9	19.6	1.6	61.2
Indian Health Service	8.2	0.0	4.2	8.4	8.7	79.4	0.6
Cultural/community healer	1.8	0.0	1.3	4.0	4.8	6.2	1.3
Public health departments /boards of health	75.7	83.7	84.4	80.7	90.8	42.4	86.6
WIC or other community food or nutrition service	71.4	66.2	81.1	83.3	80.1	61.8	71.8
Part B and C partners	19.8	20.9	24.8	21.1	9.4	10.6	33.1
School district LEA	35.8	38.0	31.5	36.4	34.1	21.4	51.6
Cultural liaisons	2.7	1.6	1.2	0.8	2.3	16.4	2.8
Advocacy groups	19.5	14.2	7.2	29.9	16.9	8.9	18.4
Other social services providers	40.9	32.9	23.4	48.1	39.0	30.1	42.0
Other local government agencies or officials	20.5	16.5	13.3	22.2	22.1	14.6	15.5
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 5.3 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 5.4. HSAC Consultation

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Frequency of HSAC meetings (% distribution)							
Never (do not formally meet)	0.6	0.0	0.0	0.0	1.2	1.0	0.0
Once a year	7.9	6.7	6.5	3.1	8.7	12.0	15.6
Twice a year	57.4	56.1	62.1	59.2	63.1	58.4	57.5
Every two to five months	31.6	34.6	30.5	36.0	25.3	27.3	24.4
Every month or more	2.4	2.6	0.9	1.7	1.7	1.4	2.5
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 5.4. HSAC Consultation, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Frequency of HSAC meetings (% distribution)							
Never (do not formally meet)	0.6	0.0	0.0	0.9	0.0	1.5	2.9
Once a year	7.9	5.6	8.7	1.8	7.9	3.1	12.9
Twice a year	57.4	59.9	66.1	57.0	35.8	39.6	55.6
Every two to five months	31.6	34.5	23.7	39.3	52.3	42.0	28.6
Every month or more	2.4	0.0	1.5	1.0	4.0	13.8	0.0
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 5.4 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

6. Health Issues for HS/EHS Children and Families

In this section, we report on health manager responses regarding the health issues facing children and families in their program. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Question

Tables 6.1 and 6.2 report results in total and by region for the following question from the Health Manager Survey, based on response items for child health and for the health of adults in the families of HS/EHS children, respectively:

- HLT01. What do you see as the health concerns facing the children and families served by your EHS/HS program?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

On average, program health managers identified about seven major health concerns for the children in their programs. At the top of the list of concerns was overweight and obesity (selected by 86 percent of programs), followed closely by tooth decay (84 percent), asthma or other lung disease (83 percent), and developmental delays (80 percent). A number of other behavioral and mental health concerns also receive frequent mention.

Health managers reported an average of six important health issues that affect the adults in the in the families of HS/EHS children. As with children, overweight and obesity tops the list as the most prevalent issue (77 percent), with high rates of mention as well for smoking (64 percent), low health literacy (60 percent), alcohol (48 percent), depression (47 percent) and family violence (47 percent).

Methods

- HS/EHS programs are the unit of analysis.
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (module 3) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Six in Karoly et al. (2016) for additional results.

Table 6.1. Program Reports of Major Health Concerns for Children in HS/EHS: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health conditions facing children in the program reported to be major concern							
Average number reported (N)	7.2	8.2	6.4	7.1	6.2	7.8	6.5
Percentage of programs reporting each health condition as a major concern (%)							
<u>Physical and oral health</u>							
Overweight and obesity (BMI above the 85th percentile)	85.7	87.6	81.2	85.6	84.8	91.0	82.8
Tooth decay or cavities	84.3	78.5	76.2	87.9	75.1	85.0	81.2
Asthma or other lung disease	82.7	94.0	88.1	83.9	86.5	85.1	76.6
Vision conditions	30.3	36.5	23.4	25.2	20.5	39.5	22.7
Ear infections	30.1	31.5	21.5	29.6	21.0	30.6	31.7
Anemia (e.g., sickle cell, low iron)	24.8	27.2	29.7	18.6	21.1	18.9	19.4
Hearing conditions	23.2	22.6	17.6	18.0	13.9	26.8	17.7
Underweight or stunting or failure to thrive	19.6	21.1	19.5	20.0	15.9	18.6	18.4
Diabetes	13.3	11.1	11.4	13.0	10.5	16.0	12.1
Other health problem	9.8	12.9	9.2	6.5	12.0	8.9	9.6
Lead poisoning	9.8	19.1	14.0	9.2	3.3	15.9	5.3
Infectious diseases (e.g., HIV, TB)	3.9	5.1	3.1	3.3	2.7	3.8	2.6
<u>Behavioral health</u>							
Developmental delays (including language delays)	80.3	82.7	78.3	81.2	76.0	81.3	77.9
ADHD or ADD	47.2	47.1	35.3	59.4	56.6	55.4	49.7
Autism spectrum disorders	42.6	47.2	35.7	45.9	37.0	46.8	38.7
Child neglect or abuse	41.1	59.6	23.6	38.2	28.8	47.9	35.3
Family violence	36.2	53.1	27.3	32.7	22.7	42.8	23.1
Anxiety (including OCD)	19.0	28.8	16.5	15.1	14.5	20.3	17.8
Depression	15.8	22.3	11.6	17.2	9.3	18.7	8.5
Other behavioral health problem	10.5	10.4	7.9	12.8	7.9	11.6	10.1
PTSD	8.2	25.0	4.0	6.8	3.0	10.8	6.7
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 6.1. Program Reports of Major Health Concerns for Children in HS/EHS: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health conditions facing children in the program reported to be major concern							
Average number reported (<i>N</i>)	7.2	8.8	7.6	7.2	8.3	7.7	6.8
Percentage of programs reporting each health condition as a major concern (%)							
<u>Physical and oral health</u>							
Overweight and obesity (BMI above the 85th percentile)	85.7	81.5	70.1	96.0	86.1	79.6	98.0
Tooth decay or cavities	84.3	91.6	89.4	92.0	91.8	92.1	94.2
Asthma or other lung disease	82.7	86.6	74.5	83.9	79.4	63.5	76.4
Vision conditions	30.3	46.6	50.1	22.4	45.9	32.5	22.3
Ear infections	30.1	43.7	41.1	20.0	31.6	53.6	36.8
Anemia (e.g., sickle cell, low iron)	24.8	25.1	18.2	50.9	15.5	24.5	30.6
Hearing conditions	23.2	41.0	34.1	21.7	39.0	31.8	20.6
Underweight or stunting or failure to thrive	19.6	28.5	20.2	22.6	26.6	12.9	25.5
Diabetes	13.3	13.8	10.9	8.9	13.8	26.4	14.5
Other health problem	9.8	6.2	4.3	14.5	8.6	10.9	10.9
Lead poisoning	9.8	30.6	7.7	3.8	2.9	1.3	4.6
Infectious diseases (e.g., HIV, TB)	3.9	6.6	5.0	1.4	6.6	3.5	20.5
<u>Behavioral health</u>							
Developmental delays (including language delays)	80.3	83.8	79.2	85.1	88.7	77.2	81.4
ADHD or ADD	47.2	56.1	40.1	26.0	40.8	46.5	26.2
Autism spectrum disorders	42.6	54.4	42.8	50.4	52.6	34.3	25.9
Child neglect or abuse	41.1	55.8	56.3	34.0	70.4	58.0	22.9
Family violence	36.2	54.5	41.2	42.0	54.0	42.7	28.1
Anxiety (including OCD)	19.0	27.1	26.3	11.8	24.8	26.5	17.3
Depression	15.8	26.5	22.9	11.5	27.1	21.0	14.4
Other behavioral health problem	10.5	6.4	7.6	12.6	12.4	17.1	7.2
PTSD	8.2	11.7	8.7	5.8	13.9	10.0	4.5
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 6.1 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 6.2. Program Reports of Major Health Concerns for Adult Family Members of Children in HS/EHS Programs: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health issues facing adult family members of children in the program reported to be major concern							
Average number reported (N)	5.9	7.1	5.2	6.0	5.2	6.3	5.3
Percentage of programs reporting each health condition as a major concern (%)							
Overweight and obesity	81.9	88.8	71.6	86.3	81.2	83.5	78.7
Smoking	67.5	83.1	55.1	73.9	62.6	76.1	63.7
Low health literacy	63.8	78.4	54.4	66.9	57.2	64.2	58.9
Alcohol	51.3	56.6	33.0	56.0	41.6	55.3	51.9
Depression	50.2	73.5	45.3	56.9	32.7	60.8	39.0
Family violence	49.8	72.4	40.4	46.7	35.6	51.2	42.5
Illegal substance/drug dependence	40.7	45.8	20.5	43.9	35.4	50.8	31.0
Diabetes	39.0	29.5	36.8	33.0	38.9	35.6	41.7
Asthma or other lung disease	35.1	43.9	42.4	39.6	33.5	34.9	27.6
Anxiety (including OCD)	31.3	53.4	31.2	31.5	18.8	38.1	22.0
Prescription drug dependence	24.8	38.2	12.5	25.1	25.4	32.1	12.0
PTSD	11.5	25.9	7.6	12.9	5.2	13.3	6.9
Infectious diseases (e.g., HIV, TB)	6.9	5.6	8.0	6.3	4.0	6.8	5.0
Other adult health problem	4.8	4.2	2.8	7.7	2.7	5.6	5.1
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 6.2. Program Reports of Major Health Concerns for Adult Family Members of Children in HS/EHS Programs: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health issues facing adult family members of children in the program reported to be major concern							
Average number reported (N)	5.9	6.5	6.7	5.1	6.5	7.4	5.2
Percentage of programs reporting each health condition as a major concern (%)							
Overweight and obesity	81.9	81.2	83.8	84.1	87.8	87.9	72.4
Smoking	67.5	84.7	77.3	44.4	81.6	73.2	55.1
Low health literacy	63.8	80.3	71.3	70.9	69.7	55.1	66.9
Alcohol	51.3	63.6	65.1	34.9	62.0	79.7	53.2
Depression	50.2	61.0	66.6	46.4	57.4	47.8	37.0
Family violence	49.8	65.4	64.9	49.4	68.3	62.1	44.3
Illegal substance/drug dependence	40.7	60.9	51.6	27.5	55.6	63.3	16.9
Diabetes	39.0	30.6	26.1	41.9	30.2	74.3	45.7
Asthma or other lung disease	35.1	29.2	32.7	37.2	34.5	34.8	16.9
Anxiety (including OCD)	31.3	36.1	43.3	27.5	40.9	32.5	16.4
Prescription drug dependence	24.8	24.4	32.1	10.1	25.7	55.6	9.7
PTSD	11.5	18.0	8.9	10.6	24.0	14.9	5.1
Infectious diseases (e.g., HIV, TB)	6.9	8.9	10.5	4.6	7.8	9.9	17.7
Other adult health problem	4.8	9.0	0.9	5.8	2.6	7.1	3.5
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 6.5 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

7. Health Management of the Individual Child

In this section, we report on approaches to obtaining and tracking child health information and communication strategies deployed by HS/EHS programs in order to assist with the management of the health of each individual child. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 7.1 reports results in total and by region for the following questions from the Health Manager Survey:

- SRF01. Does your program have a process for keeping track of health information about each child in your program?
- SRF02. Where do you get the information about the health of a child that you put in their health record?
- SRF03. How often do you update a child's health record?

Table 7.2 reports results in total and by region for the following questions from the Health Manager Survey:

- PEN01. How often do you or your health team you communicate with parents or guardians about their child's health and developmental status, on average?
- PEN02. What is the most common method you use to share information with parents or guardians about the health of their child?
- PEN03. About how often do you meet with parents or guardians (either by phone or in person) to discuss the health management of a child with special health care needs (e.g., medication management, special supports) apart from daily interactions?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (module 2) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Seven in Karoly et al. (2016) for additional results.

differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

Virtually all HS/EHS programs track child health information in a formal system, and about 90 percent do so through an electronic system. Health information is gathered from a variety of sources, most commonly from written records from health providers, immunization records, and histories obtained from parents or guardians (either orally or in writing). Health records are typically updated when changes occur, although some programs also make routine annual or biannual updates.

Communication with parents about their children's health is also a routine function, with the typical program communicating once or twice a month. Again, health managers rely on multiple approaches, typically in writing or orally when children are dropped off or picked up. At the time of the survey, few programs relied on email for routine communication. Routine parental communications is also common for children with special needs.

Table 7.1. Approach for Obtaining and Tracking Child Health Information: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Does program have a process for getting and tracking health information for each child? (% distribution)							
No	0.1	0.0	0.0	1.0	0.0	0.0	0.0
Yes, use electronic tracking system	88.5	91.9	72.6	85.6	91.3	98.5	82.6
Yes, use paper/file system	11.3	8.1	27.4	13.4	8.7	1.5	17.4
Source for child health information input into health record							
Average number of sources reported (<i>N</i>)	5.1	5.0	5.0	5.0	5.1	5.3	5.1
Percentage for each source (%)							
Written record from health provider	98.5	100.0	97.8	97.7	96.1	100.0	97.9
Interview/oral history from parent/guardian	85.6	85.6	96.3	85.0	85.6	87.9	90.0
Written history from parent/guardian	75.3	64.6	67.8	69.4	80.0	76.9	77.7
Immunization record	96.8	100.0	97.0	94.3	96.1	97.0	97.0
Written record from teacher	43.7	31.4	41.1	40.9	48.5	47.1	42.7
Written note from home visits	55.7	55.5	51.9	59.4	51.8	59.2	52.1
Child health file from previous child care program	47.4	51.6	44.3	42.6	44.2	54.3	43.0
Other	7.3	6.1	5.7	7.0	9.5	4.1	6.1
How often are child health records updated? (%)							
Once a year	16.0	10.9	17.8	9.9	22.7	15.8	13.8
Twice a year	4.4	5.3	4.7	5.8	3.6	6.0	2.8
More than twice a year	22.7	21.7	29.2	27.8	19.7	19.0	21.1
If/when changes to the child's health occur	87.2	89.3	85.3	85.9	86.1	86.5	90.6
Don't update the health record	0.2	0.0	0.0	0.0	0.8	0.0	1.2
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 7.1. Approach for Obtaining and Tracking Child Health Information: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Does program have a process for getting and tracking health information for each child? (% distribution)							
No	0.1	0.0	1.3	0.0	0.0	0.0	0.0
Yes, use electronic tracking system	88.5	94.8	94.0	96.3	90.5	74.2	94.1
Yes, use paper/file system	11.3	5.2	4.8	3.7	9.5	25.8	5.9
Source for child health information input into health record							
Average number of sources reported (<i>N</i>)	5.1	4.9	5.6	4.8	5.1	5.5	5.1
Percentage for each source (%)							
Written record from health provider	98.5	100.0	100.0	97.7	100.0	100.0	100.0
Interview/oral history from parent/guardian	85.6	79.6	84.2	78.5	81.7	78.6	71.6
Written history from parent/guardian	75.3	71.6	88.3	71.3	77.1	88.4	64.0
Immunization record	96.8	98.6	98.5	96.9	93.6	98.5	95.8
Written record from teacher	43.7	29.8	52.5	42.1	43.5	50.8	41.3
Written note from home visits	55.7	51.5	70.6	51.9	62.2	61.4	44.2
Child health file from previous child care program	47.4	48.1	53.8	37.8	46.8	50.3	79.1
Other	7.3	5.7	7.0	6.8	7.4	16.8	10.9
How often are child health records updated? (%)							
Once a year	16.0	25.7	14.5	13.3	20.3	11.9	8.6
Twice a year	4.4	0.0	3.8	4.2	2.2	7.3	4.0
More than twice a year	22.7	16.5	17.8	27.2	14.7	25.0	34.7
If/when changes to the child's health occur	87.2	98.6	90.0	82.4	88.7	86.4	84.4
Don't update the health record	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 7.1 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 7.2. Approach to Communication with Parents About Child Health: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Frequency of communication with parents/guardians about child's health and developmental status (% distribution)							
Once a year	1.6	1.8	0.3	0.6	2.3	0.9	1.4
Twice a year	5.9	5.4	6.6	7.6	6.4	7.0	3.1
Every two to five months	16.1	27.1	13.1	19.4	11.8	17.1	18.0
Every month	23.0	18.0	22.0	21.7	25.7	23.6	20.4
Several times a month	23.8	15.2	28.1	19.6	23.8	24.9	21.2
Weekly	16.5	21.4	22.2	16.6	13.1	15.5	15.4
Other	13.2	11.1	7.7	14.5	16.8	11.1	20.4
Most common method used to share information with parents/guardians about child's health (% distribution)							
Formal meetings	6.0	3.7	5.9	5.8	4.9	5.4	10.2
Phone calls	23.0	15.6	24.3	27.7	20.5	31.6	17.4
Email/electronic communication	0.3	0.0	0.6	1.0	0.8	0.4	0.0
Written communication	31.0	30.7	26.5	35.6	42.1	34.4	35.7
In-person communication at drop-off or pick-up	28.7	38.4	34.2	21.0	22.6	15.9	31.1
Other	11.0	11.6	8.5	9.0	9.0	12.2	5.5
Frequency of meeting with parents/guardians (phone or in person) to discuss health management of a child with special health care needs ^a (% distribution)							
Never	1.2	1.7	2.5	1.7	0.5	0.8	0.0
Once a year	5.1	7.6	3.3	2.5	4.6	7.1	5.1
Twice a year	11.1	16.0	4.9	10.9	11.4	13.4	7.6
Every two to five months	20.7	31.7	12.3	19.2	14.2	22.0	21.3
Every month	22.1	8.8	23.2	23.8	26.3	21.9	22.2
Several times a month	19.4	15.5	35.3	14.9	18.9	14.9	20.2
Other	20.4	18.7	17.5	26.3	23.2	19.8	23.7
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 7.2. Approach to Communication with Parents About Child Health: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Frequency of communication with parents/guardians about child's health and developmental status (% distribution)							
Once a year	1.6	2.2	0.0	2.3	4.3	4.3	0.0
Twice a year	5.9	10.0	4.9	3.6	3.1	2.9	11.1
Every two to five months	16.1	9.5	20.9	11.3	25.1	20.4	5.4
Every month	23.0	24.3	20.8	28.5	21.5	20.4	21.1
Several times a month	23.8	26.9	25.4	26.3	24.3	21.4	23.1
Weekly	16.5	16.6	13.9	17.6	11.7	15.7	19.9
Other	13.2	10.4	14.1	10.5	10.1	15.0	19.4
Most common method used to share information with parents/guardians about child's health (% distribution)							
Formal meetings	6.0	5.2	1.3	5.3	11.4	4.4	12.8
Phone calls	23.0	22.6	33.6	15.0	24.9	12.6	28.9
Email/electronic communication	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Written communication	31.0	26.9	20.2	18.7	9.5	38.7	15.9
In-person communication at drop-off or pick-up	28.7	20.9	39.0	48.5	33.5	32.0	30.7
Other	11.0	24.4	5.9	12.4	20.6	12.2	11.7
Frequency of meeting with parents/guardians (phone or in person) to discuss health management of a child with special health care needs ^a (% distribution)							
Never	1.2	3.0	0.0	2.8	0.0	0.0	0.0
Once a year	5.1	4.2	2.5	4.2	13.4	5.0	3.0
Twice a year	11.0	10.1	12.7	16.0	10.5	11.5	5.9
Every two to five months	20.6	26.5	36.7	19.7	20.6	24.6	20.3
Every month	22.0	18.6	26.5	19.7	22.3	20.7	22.5
Several times a month	19.3	14.7	14.2	21.1	11.6	15.4	29.9
Other	20.4	22.9	7.4	16.3	21.6	21.5	18.4
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 7.2 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

^a Excludes 5 health managers responding for 5 programs that report they do not serve children with special health care needs.

8. Overview of Health Services in Head Start

In this section, we provide an overview of the health services facilitated by Head Start, include health screenings; physical, behavioral and mental, and oral health services provided on-site (or sometimes off-site); home-based health services; other health-related services provided for families; and health services provided for pregnant women. We also discuss how HS/EHS programs ensure that there is follow-up for the results of health screenings and other health care that children require. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 8.1 reports results in total and by region for the following questions from the Health Manager Survey:

- MCR01. What types of medical care do health providers who come to the EHS/HS program provide on-site?

Table 8.2 reports results in total and by region for the following questions from the Health Manager Survey:

- MCR19. What process or processes do you use to ensure that children receive follow-up services (for physical health, oral health, behavioral health)?

Table 8.3 reports results in total and by region for the following questions from the Health Manager Survey:

- MCR22. Do you (or your staff) provide health services or health programs in the home?
- MCR23. What health service or health programs do you conduct in the home?

Table 8.4 reports results in total and by region for the following questions from the Health Manager Survey:

- MCR24. What barriers, if any, do you face when providing health services or programs in the home?

Table 8.5 reports results in total and by region for the following questions from the Health Manager Survey:

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (modules 3 and 4) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Eight in Karoly et al. (2016) for additional results.

- PRO01. Do you offer any of the following services to families?

Table 8.6 reports results in total and by region for EHS programs only the following questions from the Health Manager Survey:

- PRO02. Even if your program does not include EHS, does your program offer any services to pregnant women?
- PRO03. Which of the following services do you offer to pregnant women?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

The most common services delivered by providers on-site by a majority of programs include speech therapy, behavioral or mental health care, care or therapy for children living with disabilities, and oral disease prevention (e.g., fluoride treatment). Again, multiple strategies are used to ensure that parents follow up with any needed services.

A minority of programs offer home-based health services (40 percent). As might be expected, such services are more common in EHS programs (59 percent) compared with HS programs (33 percent). Common services include teaching parents and children about healthy behaviors, nutritional services, and health screenings. Health managers identified a number of barriers to providing services in the home, most prominently those tied to parent availability, understanding of health issues, and acceptance of services.

Programs offer other health-related services, including the following offered by a majority of programs: information about health insurance and assistance enrolling, workshops on education and parenting, health-related events for the entire family, health and social services offered in collaboration with service agencies (e.g., hospitals), and health literacy services.

Services for pregnant women are offered almost universally in EHS programs. An extensive set of services includes providing relevant information (e.g., nutrition, breast-feeding, child development), referrals to health care providers, and help with finding baby care items.

Table 8.1. Types of Medical Care That Providers Deliver Onsite at HS/EHS Programs: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Types of medical care that providers come to HS/EHS program to deliver on-site							
Average number reported (N)	4.8	4.6	4.7	4.9	5.1	4.6	5.1
Percentage for each type of care (%)							
Physical exams	19.2	3.6	10.7	16.1	24.3	23.6	22.1
Immunizations	14.6	6.7	12.9	14.5	9.5	12.8	15.8
Oral health prevention (e.g., fluoride)	60.1	73.5	52.7	49.9	47.4	59.2	48.8
Oral health treatment (e.g., through a mobile or portable dental program)	35.1	43.1	39.8	38.7	36.6	38.8	27.5
Behavioral or mental health care (e.g., counseling, treatment)	66.3	67.3	62.5	71.7	74.2	60.5	72.9
Care or therapy for individuals living with disabilities (e.g., occupational therapy)	63.1	59.6	64.5	70.4	71.7	55.8	69.4
Nutritional care (e.g., assistance with feeding tubes)	25.8	23.9	27.3	29.7	29.3	18.7	26.5
Physical therapy	50.6	48.4	54.2	53.3	60.8	48.6	66.6
Speech therapy	82.1	75.9	80.2	79.1	92.9	79.1	88.0
Laboratory services	10.2	5.7	7.2	6.7	11.1	14.3	14.0
General health education	53.2	45.1	55.0	54.7	48.2	49.3	54.3
No medical, oral, or behavioral care is provided at the program	3.7	3.7	5.8	3.4	2.7	2.4	3.6
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 8.1. Types of Medical Care That Providers Deliver Onsite at HS/EHS Programs: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Types of medical care that providers come to HS/EHS program to deliver on-site							
Average number reported (<i>N</i>)	4.8	5.0	5.2	4.6	4.2	5.2	4.9
Percentage for each type of care (%)							
Physical exams	19.2	15.1	22.9	17.0	9.1	26.0	36.4
Immunizations	14.6	16.0	19.9	21.1	6.7	21.1	31.9
Oral health prevention (e.g., fluoride)	60.1	77.1	64.3	65.0	71.0	88.0	76.3
Oral health treatment (e.g., through a mobile or portable dental program)	35.1	31.4	28.2	32.9	24.5	31.6	35.3
Behavioral or mental health care (e.g., counseling, treatment)	66.3	55.8	71.2	69.9	47.5	68.9	54.8
Care or therapy for individuals living with disabilities (e.g., occupational therapy)	63.1	67.7	68.8	49.6	53.1	64.7	55.3
Nutritional care (e.g., assistance with feeding tubes)	25.8	29.8	30.1	24.7	32.4	20.3	29.0
Physical therapy	50.6	56.5	56.4	29.4	37.3	35.8	37.6
Speech therapy	82.1	80.1	81.9	73.7	78.0	88.3	75.7
Laboratory services	10.2	15.3	13.9	5.3	2.2	12.6	4.7
General health education	53.2	53.1	59.4	62.9	44.7	59.3	53.5
No medical, oral, or behavioral care is provided at the program	3.7	5.4	4.1	4.0	8.5	2.3	0.0
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 8.5 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 8.2. Processes Used to Ensure Children Receive Follow-Up Health Services: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Processes used to ensure children received follow-up services for physical, behavioral, and oral health							
Average number reported (<i>N</i>)	4.3	4.4	4.2	4.3	4.3	4.4	4.5
Percentage for each process (%)							
Conduct a periodic review of child health files to ensure that follow-up service were received	94.2	97.1	94.7	96.6	95.8	93.9	95.5
Follow up with health care providers to obtain copy of health service record	86.9	86.4	74.5	89.2	87.3	92.9	90.9
Follow up with parents/guardians to ensure that services were received	94.9	97.1	93.3	94.1	94.9	95.1	96.7
Discuss with health staff at regular program meetings	66.6	56.9	65.2	72.2	62.5	68.8	63.5
Follow up with classroom teachers	67.4	74.5	60.1	65.3	63.0	71.5	80.3
Use an external evaluator to review health records	12.9	9.7	21.1	9.8	14.3	12.4	15.8
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 8.2. Processes Used to Ensure Children Receive Follow-Up Health Services: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Processes used to ensure children received follow-up services for physical, behavioral, and oral health							
Average number reported (<i>N</i>)	4.3	4.3	4.3	4.5	4.6	3.7	4.3
Percentage for each process (%)							
Conduct a periodic review of child health files to ensure that follow-up service were received	94.2	94.9	88.9	93.8	96.1	85.4	97.0
Follow up with health care providers to obtain copy of health service record	86.9	91.3	94.0	87.1	95.7	71.2	89.4
Follow up with parents/guardians to ensure that services were received	94.9	94.4	98.2	95.4	99.5	91.8	88.2
Discuss with health staff at regular program meetings	66.6	72.3	60.9	79.1	75.5	49.4	77.0
Follow up with classroom teachers	67.4	61.6	76.0	69.6	62.1	62.8	51.3
Use an external evaluator to review health records	12.9	5.5	7.0	12.6	16.2	6.7	12.2
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 8.6 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 8.3. Health Services or Health Programs Offered in Home: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Program provides health services or health programs in the home (% distribution)							
Yes	42.0	45.2	38.3	49.5	34.2	53.1	23.8
No	55.3	54.8	59.2	47.1	64.1	44.4	72.7
Don't know	2.7	0.0	2.5	3.5	1.7	2.5	3.5
Among programs offering services in the home, which services are conducted in the home?							
Average number reported (<i>N</i>)	4.4	4.6	4.5	4.4	4.0	4.4	4.2
Percentage for each process (%)							
Conduct health screenings	60.4	69.4	61.5	63.4	48.7	59.8	58.7
Provide immunizations	0.9	0.0	0.0	0.0	0.0	1.1	3.9
Attend to the physical health needs of children living with chronic health issues	19.7	9.5	28.7	22.6	19.5	14.7	22.9
Teach children about healthy behaviors (e.g., proper tooth brushing)	76.1	75.8	73.0	77.4	63.9	77.4	73.4
Teach parents/families about supporting healthy behaviors	88.7	92.0	87.1	91.5	82.7	86.2	83.3
Provide counseling or other mental health services	41.9	33.3	44.0	32.6	41.6	41.6	47.1
Provide nutritional services	61.4	81.0	64.0	61.7	49.9	64.2	60.0
Help families enroll in health insurance	76.6	79.1	78.4	76.8	75.2	77.2	59.2
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 8.3. Health Services or Health Programs Offered in Home: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Program provides health services or health programs in the home (% distribution)							
Yes	42.0	50.6	45.5	48.2	56.9	22.1	54.4
No	55.3	44.0	53.2	51.0	37.3	73.5	42.6
Don't know	2.7	5.4	1.4	0.8	5.7	4.4	3.0
Among programs offering services in the home, which services are conducted in the home?							
Average number reported (<i>N</i>)	4.4	4.7	4.6	4.6	4.8	3.9	4.3
Percentage for each process (%)							
Conduct health screenings	60.4	73.5	63.3	60.0	68.9	42.2	59.7
Provide immunizations	0.9	0.0	0.0	1.5	0.0	7.4	0.0
Attend to the physical health needs of children living with chronic health issues	19.7	19.6	23.9	16.6	24.4	22.0	14.9
Teach children about healthy behaviors (e.g., proper tooth brushing)	76.1	84.0	84.2	82.3	84.8	74.3	61.4
Teach parents/families about supporting healthy behaviors	88.7	97.2	84.0	96.2	93.3	80.6	94.7
Provide counseling or other mental health services	41.9	42.3	44.8	48.4	41.3	42.0	45.7
Provide nutritional services	61.4	66.7	59.3	61.1	70.5	29.6	63.0
Help families enroll in health insurance	76.6	76.6	82.9	79.4	86.9	56.5	84.4
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 8.7 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 8.4. Barriers to Offering Health Services or Health Programs in the Home: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Among programs offering services in the home, what barriers are faced when providing health services or programs in the home?							
Average number reported (<i>M</i>)	4.0	4.0	3.7	4.2	3.4	4.1	3.8
Percentage for each barrier (%)							
Cultural or religious beliefs or barriers	24.2	21.7	16.5	26.2	28.5	21.4	25.6
Language barriers between HS/EHS staff and families	27.7	34.8	16.0	29.7	29.8	28.2	31.1
Literacy barriers	44.4	50.0	39.2	48.9	34.7	45.5	49.3
Parent/guardian lack of time	57.9	35.1	67.7	64.9	57.3	54.9	48.0
Parent/guardian does not understand importance of screening/treatment	73.4	72.1	76.2	77.0	62.4	82.8	63.2
Parent/guardian resistance to treatment	55.5	60.7	54.3	59.8	47.9	64.1	33.4
No physical space to conduct activities in the home	17.8	20.2	17.6	18.2	7.8	15.4	17.4
Difficulty finding a quiet space to conduct activities without interruption	30.6	22.2	25.4	35.9	20.4	30.8	33.0
Privacy concerns to discussing health-related matters in the home	16.0	24.7	10.7	19.5	6.4	15.8	20.0
Discomfort with staff in being in the home	18.0	25.4	23.2	16.4	16.4	15.2	17.0
Safety issues for staff to be in the home	24.9	22.9	23.8	18.1	23.3	26.2	32.9
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 8.4. Barriers to Offering Health Services or Health Programs in the Home: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Among programs offering services in the home, what barriers are faced when providing health services or programs in the home?							
Average number reported (<i>M</i>)	4.0	4.9	4.4	3.8	4.3	3.3	3.9
Percentage for each barrier (%)							
Cultural or religious beliefs or barriers	24.2	28.9	22.3	28.6	35.1	7.1	30.2
Language barriers between HS/EHS staff and families	27.7	40.9	26.1	27.6	37.2	7.1	19.2
Literacy barriers	44.4	59.4	48.7	39.1	58.4	20.0	44.0
Parent/guardian lack of time	57.9	59.2	60.3	49.5	65.4	62.5	77.2
Parent/guardian does not understand importance of screening/treatment	73.4	81.0	83.1	69.1	68.7	53.9	66.8
Parent/guardian resistance to treatment	55.5	59.1	62.1	54.2	57.0	47.8	43.5
No physical space to conduct activities in the home	17.8	26.3	20.9	23.2	20.2	13.1	26.8
Difficulty finding a quiet space to conduct activities without interruption	30.6	54.7	40.6	26.3	35.7	20.3	26.7
Privacy concerns to discussing health-related matters in the home	16.0	27.6	23.6	15.8	16.2	6.9	15.2
Discomfort with staff in being in the home	18.0	21.3	19.7	14.4	7.9	40.5	13.8
Safety issues for staff to be in the home	24.9	32.4	25.8	24.5	18.7	32.8	19.6
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 8.7 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 8.5. Other Health-Related Services Offered to Families by HS/EHS Programs: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Services offered by program to families							
Average number reported (<i>N</i>)	5.2	4.9	5.2	5.5	5.5	5.0	5.3
Percentage for each service (%)							
Health-related events for the entire family, including health services for other family members	68.2	57.6	71.1	75.2	68.3	71.4	67.6
Weight-management program or education	53.9	45.6	55.9	54.9	58.2	48.5	62.8
Smoking cessation	35.6	32.6	31.0	38.6	43.7	33.7	32.2
Information about health insurance and assistance enrolling	90.9	95.3	86.1	96.9	91.2	89.2	93.2
Workshops or education on parenting (e.g., classes on child development, education in being a parent, understanding children with special needs)	87.4	88.7	85.6	89.2	92.4	85.5	84.9
Adult literacy or health program (including Adult Basic Education)	53.3	42.1	51.1	65.0	66.9	48.2	60.2
Health literacy	65.3	56.0	70.8	68.3	71.1	60.5	68.7
Health or social services offered collaboratively by service agencies such as hospitals	67.4	73.1	70.0	71.8	67.7	69.1	66.6
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 8.5. Other Health-Related Services Offered to Families by HS/EHS Programs: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Services offered by program to families							
Average number reported (<i>N</i>)	5.2	5.0	4.9	5.3	5.0	4.7	5.0
Percentage for each service (%)							
Health-related events for the entire family, including health services for other family members	68.2	59.6	58.6	71.6	54.5	69.0	71.5
Weight-management program or education	53.9	49.9	48.7	63.1	49.2	42.5	57.6
Smoking cessation	35.6	36.0	40.6	37.4	42.2	29.4	21.4
Information about health insurance and assistance enrolling	90.9	91.2	94.9	90.4	97.7	82.7	92.4
Workshops or education on parenting (e.g., classes on child development, education in being a parent, understanding children with special needs)	87.4	79.0	89.9	95.5	84.8	82.8	81.6
Adult literacy or health program (including Adult Basic Education)	53.3	46.6	47.4	49.4	49.9	40.5	55.3
Health literacy	65.3	67.7	60.0	59.6	66.3	61.8	68.4
Health or social services offered collaboratively by service agencies such as hospitals	67.4	69.6	57.4	66.5	68.8	57.3	60.6
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 8.8 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 8.6. Services Offered to Pregnant Women by EHS Programs: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Program offers services to pregnant women (% distribution)							
Yes	93.9	86.5	91.5	98.6	94.5	96.0	94.3
No	4.9	8.2	3.5	1.4	5.5	4.0	5.7
Don't know	1.2	5.3	4.9	0.0	0.0	0.0	0.0
Among programs offering services to pregnant women, services offered in the program							
Average number reported (<i>M</i>)	16.2	14.9	16.7	16.2	16.1	16.3	15.8
Percentage for each process (%)							
Nutrition information	98.6	94.8	100.0	100.0	98.1	97.0	98.6
Information on how to take care of themselves during pregnancy	98.4	92.9	98.2	100.0	100.0	96.3	98.6
Information on breastfeeding	97.9	88.1	98.2	97.7	99.0	97.0	98.6
Information on how children grow and develop	97.8	92.9	100.0	100.0	97.9	96.1	98.6
Information on how to take care of babies	97.7	87.8	98.2	98.4	99.1	97.0	98.6
Postpartum services, including information on postpartum depression	96.5	89.3	98.2	97.7	97.6	95.3	97.4
A referral to a dentist for the mother	94.1	87.7	95.9	93.7	94.1	95.4	90.8
Information on how to prepare their home for a new baby	93.7	86.6	96.6	96.9	94.7	92.8	94.5
Help finding clothes, a stroller, or other baby care items	93.2	89.3	91.5	95.6	93.5	93.9	90.7
A referral to an OB, nurse/midwife, or other provider for pregnant women	87.2	82.5	87.1	91.4	83.1	91.4	91.2
A referral to a pediatrician for the baby	87.1	77.5	93.1	89.1	82.8	87.6	89.7
A referral to someone to help with breastfeeding (lactation consultant)	86.2	78.4	92.8	86.5	83.1	86.9	74.8
A referral to a pregnancy or childbirth class	84.9	78.5	87.1	79.8	85.4	91.3	76.9
Referrals for drug and alcohol cessation	84.2	79.8	77.8	75.4	83.0	88.0	77.1
A referral for smoking cessation	79.7	77.0	77.0	77.7	78.7	78.4	71.5
The chance to get together with other pregnant women or mothers	78.1	64.2	88.4	84.7	79.8	80.4	73.0
Parenting classes	73.0	51.2	77.3	67.3	77.8	67.4	65.6
A referral for a doula (or someone to help with the birthing process)	39.3	40.5	55.1	35.7	31.2	44.4	35.9
Classes for new or expectant fathers	39.2	26.4	52.4	28.0	46.1	34.4	49.6
Sibling classes	21.6	18.3	24.2	18.3	19.9	25.5	19.0
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 8.6. Services Offered to Pregnant Women by EHS Programs: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Program offers services to pregnant women (% distribution)							
Yes	93.9	97.9	98.6	94.3	94.6	80.0	85.1
No	4.9	2.1	1.4	3.5	5.4	16.7	14.9
Don't know	1.2	0.0	0.0	2.2	0.0	3.2	0.0
Among programs offering services to pregnant women, services offered in the program							
Average number reported (<i>N</i>)	16.2	17.0	16.9	16.5	16.4	14.6	17.0
Percentage for each process (%)							
Nutrition information	98.6	100.0	100.0	99.0	100.0	100.0	100.0
Information on how to take care of themselves during pregnancy	98.4	100.0	100.0	99.0	97.4	100.0	100.0
Information on breastfeeding	97.9	99.1	100.0	99.0	97.4	100.0	100.0
Information on how children grow and develop	97.8	99.1	100.0	97.8	100.0	92.0	100.0
Information on how to take care of babies	97.7	100.0	100.0	97.0	100.0	96.0	100.0
Postpartum services, including information on postpartum depression	96.5	99.1	100.0	99.0	94.7	84.5	93.3
A referral to a dentist for the mother	94.1	100.0	99.0	92.0	100.0	85.2	100.0
Information on how to prepare their home for a new baby	93.7	95.7	100.0	92.5	89.3	85.4	100.0
Help finding clothes, a stroller, or other baby care items	93.2	97.9	95.8	93.2	89.7	91.4	100.0
A referral to an OB, nurse/midwife, or other provider for pregnant women	87.2	92.9	89.9	83.7	86.8	67.9	93.3
A referral to a pediatrician for the baby	87.1	96.0	100.0	85.1	89.6	63.4	82.5
A referral to someone to help with breastfeeding (lactation consultant)	86.2	92.5	93.9	89.2	91.9	79.4	85.5
A referral to a pregnancy or childbirth class	84.9	96.9	89.3	80.9	91.6	65.9	93.3
Referrals for drug and alcohol cessation	84.2	97.0	90.0	89.1	97.2	69.1	90.6
A referral for smoking cessation	79.7	88.9	91.5	83.9	94.6	67.0	76.1
The chance to get together with other pregnant women or mothers	78.1	64.9	62.7	84.8	69.8	75.6	70.6
Parenting classes	73.0	68.5	74.8	89.2	70.0	80.7	76.1
A referral for a doula (or someone to help with the birthing process)	39.3	48.7	35.1	28.7	48.0	32.3	38.3
Classes for new or expectant fathers	39.2	35.6	40.5	41.4	15.9	40.6	41.3
Sibling classes	21.6	28.5	14.2	22.8	11.4	20.1	41.5
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 8.9 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

9. Partnerships for Physical Health, Mental/behavioral Health, and Oral Health

In this section, we report on health managers' responses regarding the ability of the partnerships they have with providers and agencies in the community to meet the physical health, behavioral/mental health, and oral health needs of children in programs, including those children with special health care needs. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 9.1 reports results in total and by region for the following questions from the Health Manager Survey:

- MRC06. Overall, how would you describe the ability of your partnerships to handle the physical health needs of children in your program?
- MRC07. How would you describe the ability of your partnerships to handle the needs of children living with disabilities in your program?
- MRC13. Overall, how would you describe the ability of your partnerships to handle the behavioral health needs of children in your program?
- MRC18. Overall, how would you describe the ability of your partnerships to handle the oral health needs of children in your program?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (module 4) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapters Nine, Ten, and Eleven in Karoly et al. (2016) for additional results.

Results for All HS/EHS Programs

Across all HS/EHS programs, the vast majority (84 percent) of program health managers stated that their partnerships with physical health providers are adequate or very adequate for meeting the physical health needs of the children they serve. A similar rating of adequacy holds for meeting the needs of children living with disabilities.

Compared with partnerships with physical health providers, health managers were somewhat less likely to state that their partnerships with behavioral or mental health providers are adequate or very adequate for addressing the behavioral or mental health needs of the children in their programs (76 percent versus 84 percent for physical health).

Health managers were about equally likely to rate their partnerships with oral health providers as adequate or very adequate for meeting oral health needs as they were for behavioral and mental health providers (76 percent in each case). This is somewhat below the adequacy rating for partnerships with physical health providers (84 percent).

Table 9.1. Ability of Partnerships to Address Health Needs of Children: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Describe ability of partnerships to handle <u>physical health needs</u> of children in the program (% distribution)							
Not adequate	0.7	0.0	0.2	0.0	0.5	2.0	0.0
Somewhat adequate	12.4	12.2	15.4	13.9	9.4	14.0	8.0
Adequate	41.0	42.5	51.1	47.8	32.0	37.4	45.2
Very adequate	45.2	45.4	30.7	37.0	58.0	46.7	45.3
Describe ability of partnerships to handle <u>needs of children in the program living with disabilities</u> (% distribution)							
Not adequate	1.2	0.0	0.2	0.0	0.4	1.9	0.8
Somewhat adequate	14.6	11.5	17.6	20.7	8.9	16.9	8.1
Adequate	42.3	39.9	49.2	38.9	42.0	38.0	46.0
Very adequate	40.9	46.7	30.9	37.8	48.6	42.8	45.1
Describe ability of partnerships to handle <u>behavioral or mental health needs</u> of children in the program (% distribution)							
Not adequate	3.7	6.2	5.8	2.0	0.9	4.4	0.8
Somewhat adequate	20.5	25.9	24.0	25.9	14.7	24.9	10.9
Adequate	49.1	43.6	52.6	49.4	50.2	43.2	51.8
Very adequate	26.0	24.4	17.4	21.3	34.2	26.9	34.0
Describe ability of partnerships to handle <u>oral health needs</u> of children in the program (% distribution)							
Not adequate	4.2	1.4	3.6	3.2	3.6	8.0	2.9
Somewhat adequate	19.4	31.9	19.5	21.9	8.1	29.4	10.9
Adequate	38.2	29.4	47.6	40.5	40.1	30.7	44.7
Very adequate	37.3	36.1	28.3	32.9	47.1	31.2	39.7
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 9.1. Ability of Partnerships to Address Health Needs of Children: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Describe ability of partnerships to handle <u>physical health needs</u> of children in the program (% distribution)							
Not adequate	0.7	0.0	0.0	0.0	2.1	1.5	2.9
Somewhat adequate	12.4	13.1	9.8	12.5	12.9	15.0	11.5
Adequate	41.0	34.6	38.5	48.8	34.1	38.4	30.7
Very adequate	45.2	52.3	51.7	37.8	49.6	45.1	54.9
Describe ability of partnerships to handle <u>needs of children in the program living with disabilities</u> (% distribution)							
Not adequate	1.2	0.0	2.1	0.8	4.0	3.1	5.9
Somewhat adequate	14.6	10.4	9.4	13.7	19.5	23.1	18.4
Adequate	42.3	50.4	37.4	46.8	37.4	38.1	34.7
Very adequate	40.9	39.2	51.1	37.9	37.8	32.8	41.1
Describe ability of partnerships to handle <u>behavioral or mental health needs</u> of children in the program (% distribution)							
Not adequate	3.7	2.8	1.2	4.5	6.2	9.5	2.9
Somewhat adequate	20.5	16.8	18.9	16.7	23.8	24.0	23.5
Adequate	49.1	52.4	47.5	55.7	43.2	46.5	49.8
Very adequate	26.0	28.0	32.4	22.2	24.1	20.0	23.8
Describe ability of partnerships to handle <u>oral health needs</u> of children in the program (% distribution)							
Not adequate	4.2	6.4	0.9	5.7	4.1	1.5	0.0
Somewhat adequate	19.4	21.6	23.5	16.2	10.7	22.2	22.6
Adequate	38.2	34.3	29.8	38.2	43.0	35.7	37.2
Very adequate	37.3	37.6	45.8	38.1	42.3	40.6	40.2
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Tables 9.3, 9.4, 10.3, and 11.3 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

10. Health Promotion Activities in Head Start

In this section, we present results pertaining to health promotion activities, including resources used and challenges to starting such activities. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 10.1 reports results in total and by region for the following questions from the Health Manager Survey:

- PRG03. When there is a health topic that you feel needs to be addressed, how do you find possible resources or curriculum?

Table 10.2 reports results in total and by region for the following questions from the Health Manager Survey:

- IMP01. What are the biggest challenges to starting health promotion activities in your EHS/HS program?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

Health managers reported that they are making use of multiple approaches to find resources to support a health topic, with an average of nearly seven strategies selected overall (out of a maximum of ten). Each of the ten approaches is employed by 47 percent or more of HS/EHS programs. The most-cited approach is use of the Head Start website (83 percent), while other common resources include recommendations from a consulting provider or other community partners (73 percent), recommendations from the HSAC (70 percent), and prior use or familiarity with the curriculum (69 percent). Other prevalent approaches were searching the Internet (64

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (modules 4 and 5) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Twelve in Karoly et al. (2016) for additional results.

percent), child care and safety resources (63 percent), professional association websites or listservs (60 percent), and recommendations from state or local government (57 percent). Health managers were somewhat less likely to report using the technical assistance network for Head Start (51 percent) or recommendations from other HS/EHS programs (51 percent).

A number of barriers to implementing health-promotion activities were identified. Overall, health managers reported an average of just over three barriers (out of a 14 barriers listed). The dominant challenge selected by health managers, in 58 percent of programs, is a lack of parent or family interest or support for the topic. Other factors commonly cited are a lack of parent or family time to engage in the activity (49 percent) and limited time to implement the activity (48 percent). There is some support for other constraints at the program level such as not enough time to provide staff training (42 percent), competing program priorities and therefore not enough resources or funds (37 percent), and lack of staff buy-in (36 percent). Limited parent literacy was indicated in a minority of programs (19 percent). Issues with the quality of the health-promotion materials or trainings or cultural or linguistic barriers were selected in just 3 to 13 percent of programs. Lack of support from the HSAC or director was rarely cited as major challenges (4 to 5 percent).

Table 10.1. Approaches Used to Find Health Topic Resources or Curricula: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
How health managers find possible resources or curricula for a health topic that needs to be addressed							
Average number reported (<i>N</i>)	6.5	7.1	5.7	6.9	6.5	6.6	6.8
Percentage for each resource (%)							
Prior use/familiarity with the curriculum	68.5	73.0	62.9	71.8	60.0	70.8	69.2
Recommendation from other HS/EHS programs	50.5	58.1	43.6	60.0	42.4	57.0	47.7
Recommendation from HSAC	70.4	69.3	60.1	71.0	74.6	68.0	82.2
Recommendation from consulting provider or other community partners	73.0	76.1	65.3	77.5	73.8	72.1	75.5
Head Start website	83.3	88.9	77.3	83.9	88.6	87.4	88.8
Technical assistance network for HS/EHS	51.3	59.3	35.8	61.2	57.3	54.7	59.9
Child care health and safety resources	63.4	75.6	52.9	68.4	67.0	62.1	59.1
Professional association websites or listservs	59.5	67.6	45.1	69.1	62.2	64.0	54.4
Recommendation from state or local government	56.8	73.0	49.0	57.2	57.1	54.3	68.3
General Internet search	63.8	67.0	65.2	63.4	62.6	63.5	68.9
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 10.1. Approaches Used to Find Health Topic Resources or Curricula: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
How health managers find possible resources or curricula for a health topic that needs to be addressed							
Average number reported (<i>N</i>)	6.5	6.3	6.8	6.5	6.7	5.8	6.4
Percentage for each resource (%)							
Prior use/familiarity with the curriculum	68.5	78.6	77.0	65.3	84.5	65.6	62.7
Recommendation from other HS/EHS programs	50.5	41.2	48.3	60.1	60.6	41.7	46.3
Recommendation from HSAC	70.4	73.9	79.5	68.9	66.5	63.9	71.6
Recommendation from consulting provider or other community partners	73.0	69.9	79.5	77.0	77.5	66.4	70.8
Head Start website	83.3	79.6	83.2	78.0	79.2	74.6	76.9
Technical assistance network for HS/EHS	51.3	34.5	51.4	43.0	57.7	45.9	56.9
Child care health and safety resources	63.4	67.4	71.2	65.9	67.0	55.8	63.1
Professional association websites or listservs	59.5	68.6	66.9	57.4	61.5	46.6	62.3
Recommendation from state or local government	56.8	55.7	58.9	55.4	52.2	47.7	69.8
General Internet search	63.8	57.5	59.5	69.0	53.8	62.5	60.2
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 12.4 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 10.2. Challenges with Implementing Health Promotion Activities: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Biggest challenges to starting health promotion activities in the program							
Average number reported (<i>N</i>)	3.5	4.2	2.9	3.5	3.2	3.5	3.2
Percentage for each challenge (%)							
Lack of support from the HSAC	3.7	5.7	4.0	0.7	3.6	5.7	3.4
Lack of support from the director	5.3	5.2	2.9	5.8	4.7	6.6	5.4
Lack of staff buy-in	35.8	35.9	20.9	38.9	34.9	38.7	32.8
Not enough time to provide training to staff	42.4	54.0	31.0	38.7	36.1	47.5	33.1
Lack of parent or family interest/ support in the topic	57.8	63.2	64.8	59.6	60.8	53.9	64.0
Limited time to implement	47.5	60.4	37.4	46.9	39.3	46.0	45.9
Lack of parent or family time to engage in the activity or the timing of the activity	49.0	59.3	45.7	45.7	47.9	49.5	50.7
Poor quality of the health-promotion curriculum or program to address the health topic	4.5	1.4	5.0	3.0	4.5	5.1	3.1
Poor quality of the health-promotion trainers	2.9	1.4	1.1	0.8	1.7	5.2	3.0
Not having enough staff who speak the languages of the families we serve	6.2	7.4	3.0	5.8	8.3	7.0	4.6
Not having enough staff who come from the cultural backgrounds of the families we serve	3.5	11.7	0.9	7.4	2.9	2.7	2.5
Not having enough health materials in the language of the families we serve	13.0	14.4	12.5	12.9	13.0	10.0	10.0
Not having enough health materials that are culturally appropriate for all families	12.4	16.9	10.1	10.8	10.2	8.6	10.5
Limited parent literacy	19.4	27.2	21.7	17.8	15.3	18.1	18.5
Competing program priorities /not enough resources or funds	36.8	42.8	27.1	41.0	29.4	43.4	27.0
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 10.2. Challenges with Implementing Health Promotion Activities: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Biggest challenges to starting health promotion activities in the program							
Average number reported (<i>N</i>)	3.5	3.7	3.6	3.8	4.4	3.3	4.0
Percentage for each challenge (%)							
Lack of support from the HSAC	3.7	2.3	3.0	0.0	8.5	3.2	9.9
Lack of support from the director	5.3	7.0	5.2	6.0	4.4	4.8	5.0
Lack of staff buy-in	35.8	39.1	48.3	40.1	51.2	30.0	39.7
Not enough time to provide training to staff	42.4	46.7	43.5	49.5	68.9	40.8	48.5
Lack of parent or family interest/ support in the topic	57.8	57.2	61.1	45.0	41.7	65.2	40.3
Limited time to implement	47.5	49.2	51.6	53.6	71.7	46.8	69.3
Lack of parent or family time to engage in the activity or the timing of the activity	49.0	53.8	58.7	47.5	40.7	48.5	44.8
Poor quality of the health-promotion curriculum or program to address the health topic	4.5	3.6	1.0	5.4	7.2	8.1	7.9
Poor quality of the health-promotion trainers	2.9	1.2	3.7	3.2	4.4	4.9	7.9
Not having enough staff who speak the languages of the families we serve	6.2	12.9	2.5	6.3	7.2	3.5	5.0
Not having enough staff who come from the cultural backgrounds of the families we serve	3.5	3.7	3.4	4.6	1.3	1.9	3.2
Not having enough health materials in the language of the families we serve	13.0	14.2	12.6	19.8	18.0	12.0	10.5
Not having enough health materials that are culturally appropriate for all families	12.4	13.3	8.8	21.8	22.9	13.5	14.5
Limited parent literacy	19.4	20.2	19.6	25.9	19.3	13.8	24.3
Competing program priorities /not enough resources or funds	36.8	39.0	34.4	44.0	59.5	28.5	51.9
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 12.9 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

11. Community Partnerships in the Head Start Health Services Area

In this section, we report on health managers' responses regarding health-related community partnerships, including the health needs not being met by current partnerships and desired partnerships with community organizations that they do not currently have. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 11.1 reports results in total and by region for the following questions from the Health Manager Survey:

- PRT02. In your EHS/HS program, which of the following health needs are NOT being met (or being met well) by the agencies and organizations you work with?

Table 11.2 reports results in total and by region for the following questions from the Health Manager Survey:

- PRT04. What types of health-related community partners do you NOT have a relationship with now, but you would LIKE TO have a relationship with?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

On average, health managers selected about 3 health needs from the list of 13 needs that were not currently being met (or met well) by the agencies and organizations that the program works with. The highest rate of unmet need across HS/EHS programs is for weight

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (module 6) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Thirteen in Karoly et al. (2016) for additional results.

control services (44 percent). But this means that the vast majority of programs feel that their needs are being met in each of the health areas listed in the question. Other health areas with the highest unmet need include two topics relevant for adult health: smoking cessation (35 percent) and treatment for alcohol or substance abuse (30 percent). Other higher-rated topics are potentially relevant for children as well: environmental health concerns (29 percent), oral health care (29 percent), and behavioral health care (28 percent). All of the other health areas were mentioned by fewer than 17 percent of programs.

Health managers were also asked to indicate the organizations that they would like to work with but are not currently working with, with reference to a list of 13 agencies and organizations. The highest incidence for a desired partnership occurs for legal aid (34 percent), followed closely by a program to provide family financial planning (27 percent), a job service agency (26 percent), and a college or university (24 percent).

Table 11.1. Health Needs Not Being Met by Partner Agencies and Organizations: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health needs not being met (or met well) by agencies and organizations program works with							
Average number reported (<i>N</i>)	2.9	3.2	2.7	2.6	3.1	3.0	2.9
Percentage for each health need (%)							
Health care	11.5	6.9	10.1	7.3	15.2	10.0	8.7
Oral health care	29.3	30.2	27.4	26.9	26.9	44.8	16.7
Behavioral health care	28.0	44.5	26.6	28.9	25.8	27.1	22.7
Services for children living with disabilities/medically fragile children	14.1	7.7	13.9	8.3	15.5	14.5	8.6
Asthma management and/or education programs	16.4	23.1	11.8	10.9	19.3	16.3	19.0
Services for weight control	44.0	55.0	29.2	48.1	47.0	48.5	46.2
Hearing or vision services	15.0	12.9	19.3	11.7	14.3	19.1	8.1
Treatment for alcohol or substance use	30.3	33.8	29.2	24.1	33.9	25.3	38.1
Programs for smoking cessation	34.6	28.6	29.4	37.8	39.4	32.3	47.1
Services for pregnant women	17.2	12.8	23.9	14.4	21.1	17.5	20.7
Environmental health concerns	29.1	37.0	29.9	25.2	24.2	27.3	29.4
Injury prevention or safety concerns, emergency management	14.9	19.6	13.6	13.3	14.7	11.9	15.3
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 11.1. Health Needs Not Being Met by Partner Agencies and Organizations: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health needs not being met (or met well) by agencies and organizations program works with							
Average number reported (<i>N</i>)	2.9	2.7	2.8	3.0	2.8	3.4	2.2
Percentage for each health need (%)							
Health care	11.5	11.1	10.9	17.1	13.0	14.6	8.8
Oral health care	29.3	33.1	22.0	30.0	28.5	21.8	26.0
Behavioral health care	28.0	22.2	22.2	34.1	27.8	34.8	18.7
Services for children living with disabilities/medically fragile children	14.1	6.4	11.9	20.8	20.0	23.2	13.0
Asthma management and/or education programs	16.4	15.1	19.5	13.2	10.9	24.1	17.6
Services for weight control	44.0	43.4	45.7	48.1	37.6	34.8	44.9
Hearing or vision services	15.0	8.8	9.0	16.1	10.0	23.5	13.4
Treatment for alcohol or substance use	30.3	26.5	35.8	24.2	45.4	36.1	16.4
Programs for smoking cessation	34.6	42.1	32.4	26.2	34.0	38.3	12.7
Services for pregnant women	17.2	9.5	23.3	9.7	6.9	21.4	6.0
Environmental health concerns	29.1	29.9	29.1	40.0	22.1	33.5	15.4
Injury prevention or safety concerns, emergency management	14.9	14.3	16.5	15.2	14.7	24.5	9.1
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 13.4 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

Table 11.2. Health-Related Community Partners Would Like to Work With: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
Health-related community partners not working with now but would like to have a relationship with							
Average number reported (<i>N</i>)	2.8	2.7	2.7	2.9	2.6	2.9	2.5
Percentage for each partner (%)							
Social service agency	12.7	12.1	12.8	12.6	12.2	14.5	8.8
Food/nutrition agency	7.8	4.7	8.7	8.3	8.7	6.2	5.9
Home-visiting program	13.5	4.7	18.1	15.6	12.4	9.1	16.2
Local health department, department of public health	5.6	9.5	4.6	4.8	4.6	1.7	4.5
Migrant community health center	14.2	11.4	17.0	16.4	12.5	15.0	20.4
Indian Health Service	12.6	10.0	9.1	15.3	11.8	13.6	11.8
Tribal organization	12.3	12.0	9.1	14.2	11.3	12.3	14.0
Safety net dental clinic	17.3	19.8	17.1	11.6	15.0	22.1	13.1
Community health center and/or local hospital	12.6	19.3	8.3	14.0	14.4	11.6	11.8
Community behavioral or mental health center	12.9	18.9	18.3	13.8	10.1	15.7	8.1
Migrant education	12.1	12.0	12.3	17.5	11.0	13.3	12.7
College or university	23.6	26.2	19.3	19.8	23.0	26.6	21.5
Religious organization	15.7	12.8	13.1	16.3	16.4	17.7	9.5
Public school/LEA	3.3	3.7	6.3	2.9	1.8	2.4	0.0
Part C or Part B IDEA partner	5.3	4.5	7.0	6.1	4.6	6.4	4.7
Program to provide family financial planning	26.7	24.5	25.4	22.9	24.9	24.5	25.0
Job service agency	25.8	29.0	26.6	27.5	18.7	24.1	18.8
Legal aid	34.3	27.0	29.3	40.5	32.1	40.4	31.5
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 11.2. Health-Related Community Partners Would Like to Work With: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
Health-related community partners not working with now but would like to have a relationship with							
Average number reported (<i>N</i>)	2.8	2.6	2.4	3.0	2.9	3.4	2.7
Percentage for each partner (%)							
Social service agency	12.7	13.4	3.7	18.2	13.8	12.3	11.5
Food/nutrition agency	7.8	11.5	9.6	3.3	11.9	8.7	18.9
Home-visiting program	13.5	15.3	9.7	17.8	9.7	12.8	13.5
Local health department, department of public health	5.6	0.0	3.1	7.8	5.2	20.0	6.7
Migrant community health center	14.2	10.9	12.6	13.5	9.4	11.8	3.3
Indian Health Service	12.6	9.9	17.6	15.1	19.4	9.5	15.3
Tribal organization	12.3	8.4	16.1	14.7	15.9	9.0	15.3
Safety net dental clinic	17.3	20.4	17.6	15.3	20.1	24.3	10.1
Community health center and/or local hospital	12.6	13.5	8.6	12.4	6.9	19.4	12.8
Community behavioral or mental health center	12.9	8.8	4.8	9.8	13.8	14.9	17.1
Migrant education	12.1	8.6	9.2	10.1	15.3	11.6	5.2
College or university	23.6	21.8	15.9	27.9	12.5	34.2	30.8
Religious organization	15.7	12.4	4.4	24.8	20.6	15.5	24.6
Public school/LEA	3.3	0.9	8.0	3.4	0.0	7.8	4.4
Part C or Part B IDEA partner	5.3	4.0	3.2	1.9	2.6	9.5	6.9
Program to provide family financial planning	26.7	28.3	22.5	35.7	35.1	32.8	20.2
Job service agency	25.8	29.6	27.4	31.2	36.9	34.8	12.4
Legal aid	34.3	30.0	32.6	32.2	41.5	40.4	29.7
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 13.5 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.

12. Funding for the Health Services Area

In this section, we report on the sources of funds used to pay for physical health, behavioral health and oral health treatment services. Survey results in this section are weighted to be representative of all HS/EHS programs.

Survey Questions

Table 12.1 reports results in total and by region for the following questions from the Health Manager Survey:

- MCR20. Is a set portion of your EHS/HS budget designated for treatment services for physical health, behavioral health and/or oral health?
- MCR21. If yes, what funds are used to pay for physical health, behavioral health and oral health treatment services?

In reviewing the tables in this section, as noted in Section Two, it is important to keep in mind that these analyses are intended to be descriptive and we have not formally tested for the statistical significance of differences in indicators by region. Thus, observed differences may not be statistically significant, whether between all programs and programs in a given region or between programs in different regions.

Results for All HS/EHS Programs

In the context of physical, behavioral, or oral health treatment services, health managers were first asked to indicate whether their programs have a set portion of funds designated for such services. About 63 percent of programs reported having a set budget designated for treatment services. Interestingly, health managers in about one in five programs reported not knowing whether there is a designated budget for treatment services.

Methods

- HS/EHS programs are the unit of analysis
- All results are weighted to be representative of programs.
- Percentage distributions and means are reported for cases with nonmissing values.
- Core questions in the Health Manager Survey (Module 3) are reported for all HS and EHS programs combined and separately by Head Start region.
- See Chapter Fourteen in Karoly et al. (2016) for additional results.

Program health managers reported an average of about four sources of funds used to pay for physical, behavioral, or oral health treatment services (out of a total of eight). Medicaid or SCHIP is the dominant source (93 percent), followed by private insurance (77 percent), and the program budget (71 percent).

Table 12.1. Budget and Source of Funds Used for Treatment Services: By Region

Measure	All Regions	Region I	Region II	Region III	Region IV	Region V	Region VI
A set portion of the HS/EHS budget is designated for treatment services for physical, behavioral, or oral health (% distribution)							
Yes	63.5	41.8	50.1	60.2	85.3	59.2	74.6
No	14.1	20.5	19.8	13.8	5.1	17.1	4.4
Don't know	22.4	37.7	30.1	26.0	9.6	23.7	21.0
Among programs with a set budget, sources of funds used to pay for physical, behavioral, or oral health treatment services							
Average number reported (<i>N</i>)	3.6	3.2	3.3	3.6	3.5	3.8	3.7
Percentage for each source (%)							
Medicaid, SCHIP, other publicly funded insurance for children	93.2	87.0	89.6	94.2	96.6	93.7	96.2
County indigent funds	8.5	5.0	9.5	2.4	7.9	8.6	10.1
Private insurance	77.4	75.4	72.6	83.0	73.4	78.2	85.6
Family self-pay, out-of-pocket expense	35.0	31.0	39.7	49.6	18.6	39.2	28.5
Grant funding from an external source	16.4	19.5	15.1	16.9	8.2	19.9	9.7
In-kind contributions from providers	51.1	34.0	45.3	49.4	52.9	54.5	55.7
HS/EHS program budget	70.6	57.3	55.6	63.3	84.1	76.7	78.5
Other source	6.4	5.5	1.9	1.8	3.1	5.9	6.4
Number of health manager respondents	1,465	80	162	146	220	235	152
Number of programs	1,902	110	200	181	299	301	190

Table 12.1. Budget and Source of Funds Used for Treatment Services: By Region, *Continued*

Measure	All Regions	Region VII	Region VIII	Region IX	Region X	Region XI	Region XII
A set portion of the HS/EHS budget is designated for treatment services for physical, behavioral, or oral health (% distribution)							
Yes	63.4	66.0	75.6	63.6	73.3	36.3	74.4
No	14.1	14.5	12.3	15.5	12.0	24.4	16.9
Don't know	22.5	19.5	12.1	20.9	14.8	39.3	8.7
Sources of funds used to pay for physical, behavioral, or oral health treatment services							
Average number reported (<i>N</i>)	3.6	4.0	4.1	3.6	3.7	3.2	3.8
Percentage for each source (%)							
Medicaid, SCHIP, other publicly funded insurance for children	93.2	98.0	90.0	87.7	95.7	90.5	100.0
County indigent funds	8.5	10.5	11.4	11.2	4.4	6.2	20.1
Private insurance	77.4	82.1	84.5	73.2	76.7	77.1	60.9
Family self-pay, out-of-pocket expense	35.0	44.1	47.9	44.1	35.9	24.2	17.9
Grant funding from an external source	16.4	29.8	22.5	21.9	15.7	10.4	27.2
In-kind contributions from providers	51.1	43.5	65.7	48.6	57.6	41.3	72.1
HS/EHS program budget	70.6	80.8	80.5	66.6	71.3	40.0	76.7
Other source	6.4	8.7	5.7	8.2	14.0	25.7	0.8
Number of health manager respondents	1,465	81	87	128	69	76	46
Number of programs	1,902	110	97	173	92	101	48

SOURCE: Authors' analysis of Head Start Health Manager Descriptive Study's Health Manager Survey. This corresponds to Table 14.3 in Karoly et al. (2016).

NOTES: Results are weighted to account for survey nonresponse. Percentages, summary statistics, and percentage distributions are computed for nonmissing cases. Percentage distributions might not sum to 100 because of rounding.