

Key performance indicators from the Healthy Parenting Early Childhood Development database

The information in this report comes from the HPECD database. When possible, we compared findings from two different time periods; Period 1 covered the interval between June 1, 2014 and June 30, 2016 and Period 2 covered the interval from July 1, 2016 to June 30, 2017.

The key populations we were interested in were families with Families First Screen positive results (FFS score greater than or equal to 3) and families with Parent Survey positive results (Parent Survey score greater or equal to 25). Clinical positive screen and survey results were also included in the positive groups.

We asked four main questions; the highlights are below and the corresponding tables are attached.

1. Does PHN practice provide more direct service time to families with FFS positive results as compared to FFS negative results?

The results from the HPECD data suggest that both FFS positive and Parent Survey positive families receive more direct service time from PHNs.

2. Are PHNs meeting the Public Health prenatal contact standards? Has there been a shift in practice towards providing more prenatal service?

PHN have been meeting prenatal contact standards for first contact across both time periods. Although the proportion positive on the Families First Screen has remained relatively stable across the two time periods, there has been a decline in the number of screens completed. For families referred prenatally, the proportion of Parent Surveys completed for families with a positive screen has also declined in the second period.

3. For families with a postpartum referral, are PHN completing the Parent Survey for all families with a positive Families First screen?

For families with a postpartum referral, the percentage of families that screened positive on the Families First screen has remained stable over the two periods; almost 90% of screen positive families have a Parent Survey initiated and survey completion rate has not changed over time. PHN most frequently selected "Client refused contact" as the reason the Parent Survey was not completed.

4. Are PHN meeting the Public Health standards related to universal contact/home visit and timeliness of initial postpartum contact and visit?

The percentage of families receiving PHN contact has remained stable over the two periods; approximately 92% of families were contacted by a PHN within 48 hours of discharge. There was a slight decline in the percentage of families receiving a home visit within 7 days of initial postpartum contact from period 1 to period 2 (from 80% to 76%). Corresponding to this decline, the percentage of Families First Screens completed within seven days of maternal discharge declined from 77% to 74%.

TABLE 1. Service intensity by Families First status, WHR residents, November 1, 2016 to October 31, 2017

		(Min/Max)
Postpartum referrals		
Median PHN minutes per family		
FFS positive	115	(1/1075)
FFS negative	80	(1/850)
Median PHN minutes per family		
Parent Survey positive	133	(5/850)
Parent Survey negative	95	(1/477)
Median PHN contacts per family		
FFS positive	4	(1/33)
FFS negative	3	(1/27)
Median PHN contacts per family		
Parent Survey positive	5	(1/33)
Parent Survey negative	3	(1/20)
Prenatal referrals		
Median PHN minutes per family		
FFS positive	130	(1/927)
FFS negative	85	(5/767)
Median PHN minutes per family		
Parent Survey positive	145	(3/927)
Parent Survey negative	113	(5/760)
Median PHN contacts per family		
FFS positive	5	(1/42)
FFS negative	3	(1/29)
Median PHN contacts per family		
Parent Survey positive	6	(1/42)
Parent Survey negative	5	(1/34)

Keep in mind:

- These results are for individuals with a permanent Winnipeg address that had either a prenatal or a postpartum referral between November 1, 2016 and October 31, 2017
- Direct service time includes both phone and home visits
- Median values are presented in the table; the median is the point that lies in the middle when the data are arranged in order. The median of the following set of data points is 7 (the middle value) while the average is 305: 3, 5, 7, 10, 1500. In this example, the extreme value of 1500 pulls the average up. When there are extreme values in a dataset the median is more useful than the average
- These data are from the *Service Intensity by Families First Status* report



TABLE 2. Characteristics of prenatal referrals for WHR residents by time period*

	Period 1		Period 2	
	No	%	No	%
Number of prenatal referrals	3540		1757	
Median number of days to first PHN contact	14	(0/1102)	13	(0/286)
First PHN contact				
In the prenatal period	2198	62	1056	60
In the postpartum period	1099	31	457	26
Did not occur	238	7	242	14
Referral source†				
HCMO Prenatal benefits	1727	49	846	48
HSC Women's OPD	430	12	240	14
WRHA Antenatal Home Care Program	279	8	133	8
Healthy Start for Mom and Me	221	6	103	6
Downtown CA	164	5	107	6
Number of Families First Screens completed	3220	91.0	1356	77.2
Number of Families First Screens positive	1529	47.5	600	44.2
Number of Parent Surveys completed‡	1182	77.3	361	60.2
Number of Parent Survey positive‡	844	71.4	226	62.6
Number newly enrolled in FF§	393	34	60	22
Median days between referral and enrollment	118	(0/947)	75	(0/497)

*Period 1: June 1, 2014 to June 30, 2016; Period 2: July 1, 2016 to June 30, 2017

†Top five referral sources

‡Denominator is number of positive screens

§Denominator is number of positive surveys

Keep in mind:

- These results are for individuals with a Winnipeg address that had a prenatal referral between June 1, 2014 and June 30, 2017
- The median number of days to first PHN contact is the difference between the prenatal referral date and the date of first PHN contact. The median value is used due to the presence of extreme values
- The number of newly enrolled families in the Families First Program is based on a disposition of “enrolled” and an enrollment date occurring after the date of referral in the HPECD database. Families already in the program at the time of prenatal referral were not included
- Although it appears the number newly enrolled has declined dramatically in the second period, this may be due to the database and not a real outcome; the code looks at all surveys for a particular family in the database. Families first entered in the database in 2014 would not have previous surveys available, so they may appear as “newly” enrolled due to this limitation. Whereas, a family referred in 2017 with previous surveys

since the implementation of the database have a greater opportunity to be classified as not “newly” enrolled.

- The calculations for the screen and survey questions are based on clients that had a subsequent birth episode to the prenatal referral and not the entire prenatal cohort; 856 referrals had no birth episode, representing about 16% of the cohort.



TABLE 3. Characteristics of postpartum referrals for WHR residents by time period*

	Period 1		Period 2	
	No	%	No	%
Number of post-partum referrals	16403		7837	
Number of positive FFS	3374	20.6	1545	19.7
Number of Parent Surveys initiated†	3014	89.3	1376	89.1
Number of Parent Surveys completed‡	2989	88.6	1343	86.3
Reason Parent Survey not completed‡				
Client refused contact	282	9.4	118	8.6
Child permanently apprehended	27	0.9	12	0.9
Child relinquished/foster replacement	21	1.8	7	1.5
Neonatal death/stillborn	2	0.1	4	0.3
Language barrier	15	0.5	9	0.7
Unable to locate	66	2.2	20	1.5
Other	249	8.3	92	6.7

*Period 1: June 1, 2014 to June 30, 2016; Period 2: July 1, 2016 to June 30, 2017

†Denominator is number of FFS positive

‡Denominator is number of Parent Surveys initiated

Keep in mind:

- These results are for individuals with a permanent Winnipeg address that had a postpartum referral between June 1, 2014 and June 30, 2017
- These data are from the *Performance to Postpartum and Families First Standards* report

TABLE 4. Characteristics of postpartum referrals with respect to the Public Health standards for WHR residents by time period*

	Period 1		Period 2	
	Number	%	Number	%
Postpartum referrals	16403		7837	
Families who receive PHN contact	15143	92.3	7333	93.6
PHN contact within 48 hours of discharge	15041	91.7	7238	92.4
Families receiving PHN home visit	13845	84.4	6345	81.0
PHN home visit within 7 days of initial pp contact	13051	79.6	5949	75.9
FFS initiated postpartum	15391	93.8	7242	92.4
FFS completed within 7 days of maternal discharge	12665	77.2	5766	73.6

*Period 1: June 1, 2014 to June 30, 2016; Period 2: July 1, 2016 to June 30, 2017

Keep in mind:

- These results are for individuals with a permanent Winnipeg address that had a postpartum referral between June 1, 2014 and June 30, 2017
- These data are from the *Performance to Postpartum and Families First Standards* report