

Intervention Analysis
FDM Panel of Experts Meeting (December 2013)
Prepared by: Maggi Beckstrand, MPH

Introduction

The purpose of this presentation is to describe the types of interventions that are used by the collaboratives & how they align with the FDM Matrix Assessment. In addition, a description of the families that are receiving interventions is provided as well as the type of change seen in indicator scores after intervention assignment at intake.

Methods

The analysis is presented separately for each of the twenty FDM indicators. The twenty indicators are indicated in table 1, along with the frequency of interventions that were assigned to these indicators and the number of families with follow-up. These families (with follow-up) are used in the efficacy analysis.

Table 1 Number of Interventions by FDM Indicator

| <i>Pathway Goal / Indicator</i> | # of interventions | # of families | # of families with follow-up |
|--|--------------------|---------------|------------------------------|
| <i>Children and Youth are Nurtured, Safe and Engaged</i> | | | |
| Child Care | 2286 | 1424 | 565 |
| Risk Of Emotional Or Sexual Abuse | 2548 | 1392 | 725 |
| Supervision | 330 | 207 | 77 |
| Appropriate Development | 2356 | 1237 | 466 |
| Nutrition | 1069 | 560 | 298 |
| <i>Families are Strong and Connected</i> | | | |
| Nurturing | 902 | 555 | 224 |
| Parenting Skills | 3779 | 1882 | 797 |
| Family Communication Skills | 3376 | 1791 | 833 |
| <i>Communities are Caring and Responsible</i> | | | |
| Support System | 2622 | 1620 | 665 |
| <i>Identified Families Access Services and Supports</i> | | | |
| Budgeting | 3053 | 1828 | 845 |
| Clothing | 2467 | 1665 | 752 |
| Employment | 6067 | 3578 | 1408 |
| Home Environment | 797 | 537 | 205 |
| Stability Home Shelter | 2389 | 1443 | 643 |
| Access To Transportation | 1512 | 920 | 356 |
| Child Health Insurance | 1985 | 1132 | 622 |
| Community Resource Knowledge | 5559 | 3501 | 1674 |
| Health Services | 1605 | 956 | 419 |
| <i>Families are Free from Substance Abuse and Mental Illness</i> | | | |
| Presence of Abuse | 1241 | 764 | 257 |
| Emotional Well-being/Sense of Life Value | 3314 | 2022 | 959 |

For each of the twenty indicators, exploratory/frequency analyses were performed. To begin with, the families with at least one intervention for the indicator and at least one follow-up visit were identified (as seen in table 1). Next, the subset of families where identified for the analysis. These families met two criteria (1) the indicator was targeted (i.e., assigned an intervention) at baseline and (2) the families started at an “at risk” or “in crisis” level for the indicator. The change in indicator level between intake and last assessment was described using a frequency analysis (Figure 1). Furthermore, the use of core interventions was explored with a frequency analysis.

Results

Figure 1 describes the improvement in indicator levels seen within families who started at an “at risk” or “in crisis” level at intake.

Figure 1 Frequency of Improvement by FDM Indicator

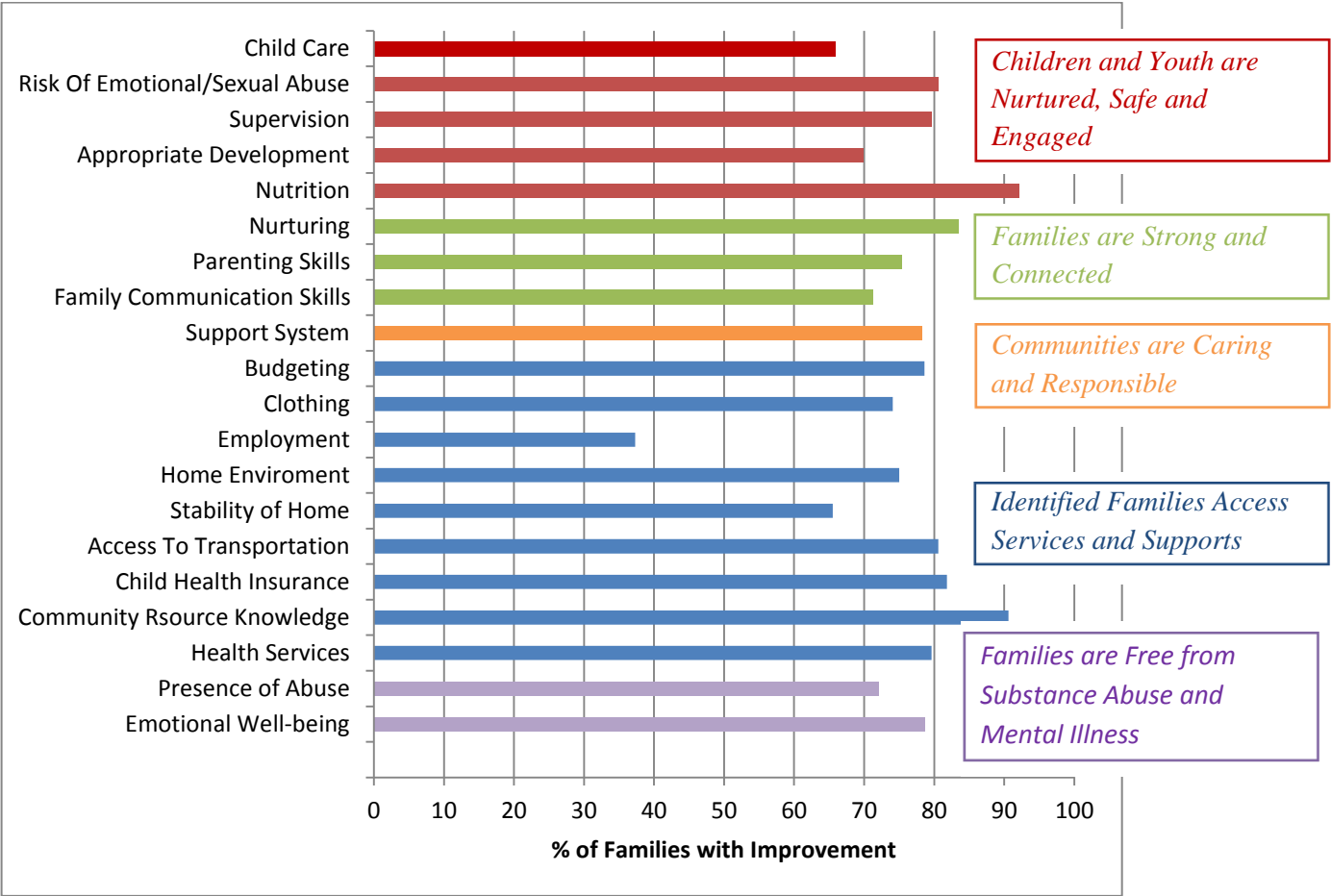


Figure 2 describes the families that showed improvement within the *Children and Youth are Nurtured, Safe and Engaged* pathway goal. For three out of the five indicators, over 60% of families were prescribed an intervention with the Matrix for this pathway goal. Regarding the supervision indicator, over 80% of families (N=39) received at least one core intervention specific for the “supervision” indicator. The nutrition indicator was the least likely

to have assignment of core interventions, 50% and 52% of improved families. Table 2 reports the ten most common interventions assigned for the indicator of nutrition. Only two of the ten intervention types were core interventions; “identify developmental concerns” falls within the pathway goal while “Connect to financial supports for self-sufficiency” is from the “Concrete support in times of need” pathway goal.

Figure 2 Intervention Alignments with Matrix Assessment, by Indicator

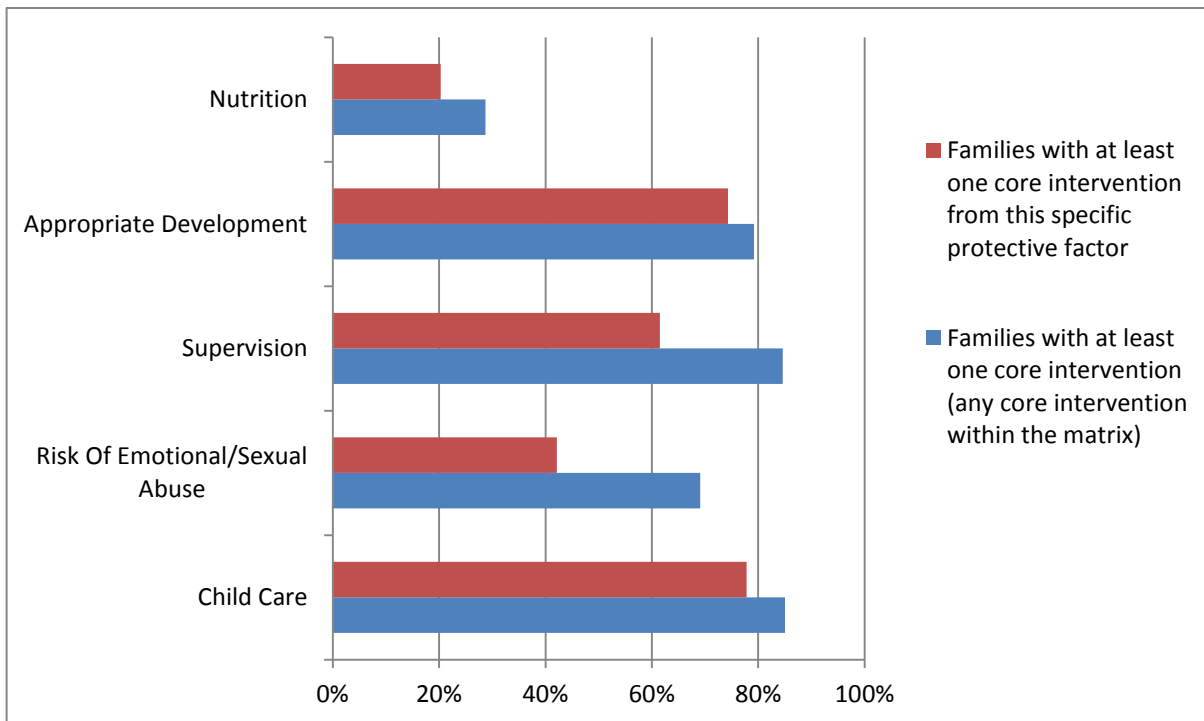


Table 2 Most Common Interventions used for Nutrition

| Intervention | % of improved Families (N=202) |
|--|--------------------------------|
| Second Harvest Food Bank of Stockton | 28.7% |
| Emergency Food Bank of Stockton | 27.2% |
| WIC | 26.7% |
| St. Mary's Interfaith | 18.8% |
| Identify developmental concerns* | 17.3% |
| Connect to financial supports for self-sufficiency** | 12.9% |
| Life Song Church | 12.4% |
| SJC Human Services Agency | 11.9% |
| Mobile Farmer's Market | 11.4% |
| Emergency Food Bank | 10.4% |

* Core intervention, specific to the pathway goal.

** Core intervention, not specific to the pathway goal.

Table 3 describes the frequency of use of core interventions among the improved families by indicator. Core interventions specific for the pathway goal are most often prescribed to families where the “parenting skills” indicator is targeted; over 80% of the families who saw improvement in this indicator received an intervention

within the pathway goal for *Families are Strong and Connected*. The top three interventions given to these improved families (N=416) were: positive parenting education (59%), connect to parent support groups and education (38%), and effectively involve fathers and other relatives in parenting (12%). Some families received multiple interventions.

Table 3 Frequency of Core Interventions by FDM Indicator

| <i>Pathway goal / Indicator</i> | % of families with improvement* | % of improved families with a core intervention | % of improved families with a core pathway goal-specific intervention |
|--|---------------------------------|---|---|
| <i>Children and Youth are Nurtured, Safe and Engaged</i> | | | |
| Child Care | 65.9% | 85.0% | 77.8% |
| Risk Of Emotional Or Sexual Abuse | 80.6% | 69.1% | 42.1% |
| Supervision | 79.6% | 84.6% | 61.5% |
| Appropriate Development | 69.9% | 79.2% | 74.3% |
| Nutrition | 92.2% | 28.7% | 20.3% |
| <i>Families are Strong and Connected</i> | | | |
| Nurturing | 83.5% | 79.0% | 78.3% |
| Parenting Skills | 75.4% | 82.9% | 80.8% |
| Family Communication Skills | 71.3% | 64.5% | 64.5% |
| <i>Communities are Caring and Responsible</i> | | | |
| Support System | 78.2% | 71.8% | 57.5% |
| <i>Identified Families Access Services and Supports</i> | | | |
| Budgeting | 78.6% | 47.0% | 47.0% |
| Clothing | 74.1% | 50.0% | 46.3% |
| Employment | 37.3% | 60.2% | 57.8% |
| Home Environment | 75.0% | 42.1% | 33.3% |
| Stability Home Shelter | 65.5% | 45.7% | 45.7% |
| Access To Transportation | 80.6% | 58.2% | 58.2% |
| Child Health Insurance | 81.8% | 55.9% | 51.5% |
| Community Resource Knowledge | 90.6% | 50.2% | 37.7% |
| Health Services | 79.6% | 66.0% | 61.7% |
| <i>Families are Free from Substance Abuse and Mental Illness</i> | | | |
| Presence of Abuse | 72.1% | 77.4% | 71.4% |
| Emotional Well-being/Sense of Life Value | 78.7% | 50.5% | 41.8% |

* includes only families who started at an “at risk” or “in crisis” level at intake and received an intervention for the targeted indicator at intake