Supplemental Information

Global Aim

By the end of the collaborative, practices will develop systems for effective screening, referral, and follow-up for development (9, 18, and 30 months), autism (18 and 24 months), maternal depression (1, 2, 4, and 6 months), and SDOH.

Specific Goals

- At least 90% of 9-, 18- and 30month-old children have documentation of a standardized developmental screen
- At least 90% of 18-and 24-monthold children have documentation of an autism-specific screen
- At least 90% of mothers are screened for maternal depression
- At least 90% of 9-, 18-, and 30month-old children are screened for social determinants of health
- Results of all screenings are discussed with at least 90% of families
- Referrals and/or resources are provided to at least 90% of families with a positive or concerning screen result
- At least 90% of referred families have follow-up documented

SUPPLEMENTAL FIGURE 3 Key driver diagram.

Primary Drivers

Family-Centered Process

- Screening takes place in context of ongoing relationship and is used to educate and engage family
- Parents understand rationale for screening
- Practices elicit family strengths
 Discussions are family centered and encourage referral uptake

Implementation of Appropriate Screening Tools

- Practices understand the need for and select an appropriate screening tool
- Practices are comfortable discussing screening results

Established Referral Network

- Practices compile referral resources
 Practices have formal connections with
- Practices have formal connections with frequent referral partners
- Practices match child and/or family needs to referral resources
- · Practices track referral resources

Effective Processes to Support Screening, Referral, and Follow-up

- Practices have a standardized workflow for screening, referral, and follow-up
- Practices have a documenting and tracking system that maintains confidentiality
- Practices have a billing system and receive payment for screening activities
- Practices have a formal communication system for the expanded medical home team

Secondary Drivers

- Use talking points or scripts to elicit and address concerns
- Use motivational interviewing, teach-back, and/or shared decision-making models
- Use posters, handouts, and other materials to educate and engage families
- Engage a parent partner or connect parents with family organizations
- Educate staff and physicians about validated screening tools
- Select validated screening tool for each topic
 Use talking points or scripts to increase staff and physician
- Use talking points or scripts to increase staff and physician comfort with difficult topics
- Determine or focus on most common referral needs
- Develop a resource directory
- Meet with potential referral resources or learn about services
- Create protocols for urgent needs
- · Establish a process to collect family feedback on referrals
- Use a warm handoff process
- Implement a standard release of information form
- Establish clear staff roles and responsibilities for staff
- Implement system for ongoing staff training
- Establish a registry, recall and reminder system, EHR alerts, or other tracking system
- Collect coding resources and establish billing process

SUPPLEMENTAL TABLE 6 Screening Tools Selected by Project I-SCRN Practices

Screening Domain	Screening Tool		%
Development	Ages and Stages Questionnaire	8	53
	Survey of Well-being of Young Children	4	27
	Parents' Evaluation of Developmental Status	3	20
Autism	Modified Checklist for Autism in Toddlers	13	87
	Survey of Well-being of Young Children	2	13
Maternal depression	Edinburgh Postnatal Depression Scale	10	67
	Patient Health Questionnaire 2	3	20
	Survey of Well-being of Young Children	2	13
SDoH	Survey of Well-being of Young Children	4	27
	Hunger Vital Signs	3	20
	Health Leads Screening Tool ^a	3	20
Social-emotional screening	Survey of Well-being of Young Children	4	27
	Ages and Stages Questionnaire: Social-Emotional	2	13

Total (N = 15) practices that provided detailed information about screening tool use.

^a Includes practices that used a modified version of the Health Leads Screening Tool.

SUPPLEMENTAL TABLE 7 Project I-SCRN Measures Table

Measure Name and Type	Description or Definition	Measure Calculation (Numerator and Denominator)
Developmental screening	Percentage of children who completed a developmental screening using a standardized, validated tool at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record of a completed validated developmental screening at the time of the visit; denominator: all children seen for their 9-, 18-, and 30-mo visit whose health records are reviewed
Discussion of developmental screening results	Percentage of children for whom it is documented that the family participated in a discussion of the developmental screening results at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record of a discussion of developmental screening results; denominator: all children seen for their 9-, 18-, and 30-mo WCV with documentation in the health record of a completed validated developmental screening
Referral for positive developmental screening results	Percentage of children with a positive developmental screen result for whom a referral was made at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation of a referral; denominator: all children seen for their 9-, 18-, and 30- month WCV with a positive developmental screening
Follow-up on developmental referral status	Percentage of children who received a referral at the 9-, 18-, and 30-mo WCV for whom follow-up was attempted within 4 wk	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation of attempted follow-up with the family within 4 wk of referral; denominator: all children seen for their 9-, 18-, and 30-mo WCV with documentation of a referral
ASD screening	Percentage of children who completed an ASD screening using a validated tool at the 18- and 24-mo WCV	Numerator: No. children seen at their 18- and 24-mo WCV with documentation in the health record of a completed validated ASD screening at the time of the visit; denominator: all children seen for their 18- and 24-mo WCV whose health records are reviewed
Discussion of ASD screening results	Percentage of children for whom it is documented that the family participated in a discussion of the ASD screening results at the 18- and 24-mo WCV	Numerator: No. children seen at their 18- and 24-mo WCV with documentation in the health record of a discussion of the ASD screening results; denominator: all children seen for their 18- and 24-mo WCV with documentation in the health record of a completed validated ASD screening
Referral for positive ASD screening results	Percentage of children with a positive ASD screen result for whom a referral was made at the 18- and 24-mo WCV	Numerator: No. children seen at their 18- and 24-mo WCV with documentation of a referral; denominator: all children seen for their 18- and 24-mo WCV with a positive ASD screening result
Follow-up on ASD referral status	Percentage of children who received a referral at the 18- and 24-mo WCV for whom follow-up was attempted within 4 wk	Numerator: No. children seen at their 18- and 24-mo WCV with documentation of attempted follow-up with the family within 4 wk of referral; denominator: all children seen for their 18- and 24-mo WCV with documentation of a referral
Maternal depression screening	Percentage of infants whose mothers completed at least 1 maternal depression screening using a validated tool by the 9-mo WCV	Numerator: No. infants seen at their 9- month WCV with documentation in the health record of at least 1 validated maternal depression screening completed by the mother at the 1-, 2-, 4-, or 6-mo WCV; denominator: all infants seen for their 9-mo WCV whose health records are reviewed
Discussion of maternal depression screening results	Percentage of infants for whom it is documented that the mother participated in a discussion of the maternal depression screening results at least once by the 9-mo WCV	Numerator: No. infants seen at their 9-mo WCV with documentation in the health record of a discussion of maternal depression screening results at least once at the 1-, 2-, 4-, or 6-mo WCV; denominator: all infants seen for their 9-mo WCV with documentation in the health record of a completed validated maternal depression screening at least once at the 1-, 2-, 4-, or 6-mo WCV
Referral for positive maternal depression screening results	Percentage of infant-mother dyads with a positive maternal depression screen result for whom a referral was made at the 1-, 2-, 4-, or 6-mo WCV	Numerator: No. infants seen at their 9-mo WCV with documentation of a referral for the mother-infant dyad; denominator: all infants seen for their 9-mo WCV with a positive maternal depression screening result at the 1-, 2-, 4-, or 6-mo WCV

SUPPLEMENTAL TABLE 7 Continued

Measure Name and Type	Description or Definition	Measure Calculation (Numerator and Denominator)
Follow-up on maternal depression referral status	Percentage of infant-mother dyads who received a referral at the 1-, 2-, 4-, or 6-mo WCV for whom follow-up was attempted within 4 wk	Numerator: No. infants seen at their 9-mo WCV with documentation of attempted follow-up with the mother within 4 wk of referral; denominator: all infants seen for their 9-mo WCV with documentation of a referral at the 1-, 2-, 4-, or 6-mo WCV
SDoH screening	Percentage of children who completed a practice-standardized SDoH screening at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record of a completed practice-standardized SDoH screening at the time of the visit; denominator: all children seen for their 9-, 18-, and 30-mo WCV whose health records are reviewed
Family strengths and/or protective factors	Percentage of children with documentation of family strengths and/or protective factors in the health record completed at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record specifying family strengths and/or protective factors; denominator: all children seen for their 9-, 18-, and 30-mo WCV whose health records are reviewed
Discussion of SDoH screening results	Percentage of children for whom it is documented that the family participated in a discussion of the SDoH screening results at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record of a discussion of SDoH screening results; denominator: all children seen for their 9-, 18-, and 30-mo WCV with documentation in the health record of a completed practice-standardized SDoH screening
Referral or linkage for positive SDoH screening results	Percentage of children with a positive SDoH screen result for whom a referral or linkage was made at the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at the 9-, 18-, and 30-mo WCV with documentation of a referral or linkage; denominator: all children seen for their 9-, 18-, and 30-mo WCV with a positive practice-standardized SDoH screening result
Social-emotional screening	Percentage of children who completed at least 1 social-emotional screening using a validated tool during the previous 9 mo by the 9-, 18-, and 30-mo WCV	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record of at least 1 validated social-emotional screening completed during the previous 9 mo; denominator: all children seen for their 9-, 18-, and 30-mo visit whose health records are reviewed
Discussion of social-emotional screening results	Percentage of children for whom it is documented that the family participated in a discussion of the social-emotional screening during the visit at which the screening was completed	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation in the health record of a discussion of the social-emotional screening results during the visit at which the screening was completed; denominator: all children seen for their 9-, 18-, and 30- month WCV with documentation in the health record of a completed validated social-emotional screening during the previous 9 mo
Referral for positive social-emotional screening results	Percentage of children with a positive social-emotional screen result for whom a referral was made at the time of the screening	Numerator: No. children seen at their 9-, 18-, and 30-mo WCV with documentation of a referral during the visit at which the screening was completed; denominator: all children seen for their 9-, 18-, and 30-mo WCV with a positive social-emotional screening result during the previous 9 mo