**Table 1. Model for implementation of depression & anxiety guidelines at US CF programs**

|  |  |  |
| --- | --- | --- |
| **Levels of Implementation** | **Tasks: Examples** | **Points Assigned** |
| **Level 1:** Preparation/Pre-implementation | Acquisition of screening tools  Scoring & interpretation | 0= not at all prepared  3= very prepared |
| **Level 2:** Implementation of standardized screening | Ease of administering screening tools | 0= not at all easy  3= very easy |
| Prepared to discuss results | 0= not at all prepared  3= very prepared |
| **Level 3:** Addressing barriers & challenges | Counseling those with symptoms in the mild range | 0= not trained  3= adequately trained |
|  | Screening adolescents privately | 0= no  1= yes |
| Developing a community referral network | 0= not started  3= complete list |
| Tracking patient scores | 0= self-report  1= electronic |
| **Level 4:** Full implementation | Counseling those with symptoms in the moderate-severe range | 0= not trained  3= adequately trained |
| Ease of providing follow-up | 0= not at all easy  3= very easy |
| **Level 5:** Sustainability | Offer telehealth | 0= no  1= yes |
| Billing | 0= no  1= yes |

**Table 2. CF program characteristics by cohort**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Cohort 1 N=80 | Cohort 2 N=30 | Cohort 3 N=12 | p |
| **Program type, *% (N)*** |  |  |  | 0.56 |
| - Pediatric | 39 (31) | 29 (9) | 25 (3) |
| - Adult | 29 (23) | 23 (7) | 33 (4) |
| - Both | 32 (26) | 48 (15) | 42 (5) |
| **Program size, *% (N****)* |  |  |  | 0.76 |
| - Large (>140) | 57 (46) | 48 (15) | 50 (6) |
| - Medium (>70 & ≤140) | 30 (24) | 32 (10) | 42 (5) |
| - Small (≤70) | 12 (10) | 19 (6) | 8 (1) |
| **Time at CF Program**, ***% (N)*** |  |  |  | 0.44 |
| - Newly appointed to team | 19 (15) | 13 (4) | 8 (1) |
| - Less than 1 year | 34 (27) | 26 (8) | 25 (3) |
| - 1 to 5 years | 28 (22) | 39 (12) | 58 (7) |
| - More than 5 years | 20 (16) | 23 (7) | 8 (1) |  |
| **Training**, ***% (N)*** |  |  |  | 0.22 |
| - Psychologist or Psychiatrist | 34 (27) | 39 (12) | 50 (6) |  |
| - Social worker/other | 66 (53) | 61 (18) | 50 (6) |  |

**Table 3. Predictors of first year of implementation scores**

|  |  |
| --- | --- |
|  | Coefficients [95% CI] |
| **Intercept** | 17.11 [12.82; 21.40]\* |
| - Cohort 1 | comparison |
| - Cohort 2 | 0.02 [-3.46; 3.49] |
| - Cohort 3 | 3.99 [-1.02; 9.01] |
| **Program type** |  |
| - Adult | comparison |
| - Pediatric | 1.05 [-2.78; 4.88] |
| - Both | 1.44 [-2.23; 5.11] |
| **Program size** |  |
| - Large (>140) | comparison |
| - Medium (>70 & ≤140) | -1.19 [-4.52; 2.13] |
| - Small (≤70) | -3.53 [-8.06; 1.01] |
| **Time in clinic** |  |
| - Newly appointed to team | comparison |
| - Less than 1 year | 2.75 [-1.72; 7.23] |
| - 1 to 5 years | 6.49 [2.04; 10.93]\* |
| - More than 5 years | 6.10 [1.19; 11.01]\* |

\* p< .05

**Table 4. Predictors of change in implementation scores across years**

|  |  |  |
| --- | --- | --- |
|  | Intercept | Slope |
| **Intercept/change per year** | 17.94 [13.82; 22.06]\* | 17.56 [11.77; 23.3]\* |
| - Cohort 2 | -1.46 [-4.55; 1.64] |  |
| - Cohort 3 | 2.78 [-2.1; 7.66] |  |
| **Program type** |  |  |
| - Adult | comparison | comparison |
| - Pediatric | 0.62 [-2.99; 4.22] | -2.46 [-7.46; 2.53] |
| - Both | 0.81 [-2.29; 3.91] | -0.05 [-4.07; 3.98] |
| **Program size** |  |  |
| - Large (>140) | comparison | comparison |
| - Medium (>70 & ≤140) | -0.30 [-3.2; 2.61] | 0.08 [-3.78; 3.95] |
| - Small (≤70) | -3.23 [-7.6; 1.14] | -2.97 [-9.03; 3.08] |
| **Time in clinic** |  |  |
| - Newly appointed to team | comparison | comparison |
| - Less than 1 year | 2.92 [-1.41; 7.24] | 1.2 [-4.71; 7.21] |
| - 1 to 5 years | 6.99 [2.68; 11.31]\* | 3.77 [-2.2; 9.78] |
| - More than 5 years | 6.43 [1.68; 11.17]\* | 6.86 [0.39; 13.37]\* |
| **Random Effects (Std. Dev.)** |  |  |
| - Intercept | 7.46 [6.15; 8.30] |  |
| - Change per year | 10.38 [8.73; 11.60] |  |
| - Correlation | 0.59 [0.43; 0.74] |  |
| - Residual | 3.14 [2.71; 3.62] |  |