Appendix D Table 26. Benefits of Primary Care Interventions for Child Maltreatment Prevention From Randomized, Controlled Trials in the Main Analysis (KQ1) – Hospitalization Continuous Outcomes

| Author, YearQualityOverall Sample Size (Analyzed) | Outcome Definition | Followup Timing | Mean Number of Episodes in G1Mean (SD) | Mean Number of Episodes in G2Mean (SD)  | Mean Number of Episodes in G3Mean (SD) | Mean Number of Episodes in G4Mean (SD) | Effect Estimate or Other Outcome Measure |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Barlow et al, 2007104McIntosh et al, 2009105FairTotal N=131 caregivers randomized (N analyzed=131) | Median days stayed in hospital; ascertained by health visitors | 6 months\* | 4 (1.1) | 3 (8.7) | NA | NA | p=NS |
| Finello et al, 1998114Fair Total N=81 infants randomized (N analyzed=77) | Mean number of hospitalizations; based on hospital and project charts as well as parent report | 0–6 months | NR (NR)† | NR (NR)† | NA | NA | NR |
| Kitzman et al, 199796FairTotal N=743 mothers randomized (N analyzed=NR) | Incidence of hospital admissions for injuries or ingestions (log-incidence), adjusted for maternal psychological resources, discretionary household income, and poverty level of census tract | 24 months | NR | 0.03 (-3.63) | NR | 0.01 (-4.31) | Log incidence difference for G4 vs. G2=0.68 (95% CI, -0.66 to 2.02)  |
| Olds et al, 199499FairTotal N=400 families randomized (N analyzed=209) | Adjustedǂ means (log incidence) of number of hospital admissions; determined by review of pediatric and hospital records for the period spanning 25 to 50 months of age | 4 years | 0.11(-5.40) | 0.11 (-2.27) | 0.14 (-5.30) | NA | Log incidence difference=0.10 (95%CI, -0.17 to 0.17), p>0.05 for G3 vs. G1§  |
| Olds et al, 199499FairTotal N=400 families randomized (N analyzed=209) | Adjustedǂ means (log incidence) of number of days hospitalized; determined by review of pediatric and hospital records for the period spanning 25 to 50 months of age | 4 years | 0.31 (-1.46) | 0.43 (-1.22) | 0.49 (-0.80) | NA | Log incidence difference=-0.66 (95%CI, -1.21 to -0.13), p<0.05 for G3 vs. G1§  |
| Siegel et al, 198089FairTotal N=321 mother-child dyads randomized (N analyzed=NR) | Total number of hospitalizations; children were considered to have received services if so indicated by either medical records or maternal report | 12 months | 10ǁ | 4ǁ | 1ǁ | 8ǁ | p=NS |
| Wiggins et al, 2004120FairTotal N=731 mother-infant dyads (N analyzed=652) | Mean number of inpatient episodes in previous 6 months; based on parent self-report | 12 months | 0.07 (0.31) | 0.08 (0.35) | 0.06 (0.24) | NA | Mean difference -0.01 (95% CI, -0.05 to 0.08) for G2 vs. G1Mean difference 0.01 (95% CI, -0.06 to 0.04) for G3 vs. G1 |
| Wiggins et al, 2004120FairTotal N=731 mother-infant dyads (N analyzed=652) | Mean number of inpatient days; based on parent self-report | 12 months | 0.73 (10.1) | 0.18 (1.02) | 0.25 (1.35) | NA | Mean difference -0.55 (95% CI, -2.18 to 0.13) for G2 vs. G1Mean difference -0.48 (95% CI, -1.95 to 0.25) for G3 vs. G1 |
| Wiggins et al, 2004120FairTotal N=731 mother-infant dyads (N analyzed=596) | Mean number of inpatient episodes in previous 6 months; based on parent self-report | 18 months | 0.04 (0.21) | 0.06 (0.31) | 0.05 (0.24) | NA | Mean difference 0.01 (95% CI, -0.04 to 0.06) for G2 vs. G1Mean difference 0.001 (95% CI, -0.04 to 0.04) for G3 vs. G1 |
| Wiggins et al, 2004120FairTotal N=731 mother-infant dyads (N analyzed=596) | Mean number of inpatient days; based on parent self-report | 18 months | 0.07 (0.42) | 0.21 (1.35) | 0.17 (1.04) | NA | Mean difference 0.14 (95% CI, -0.01 to 0.44) for G2 vs. G1Mean difference 0.10 (95% CI, -0.03 to 0.32) for G3 vs. G1 |

\* Assessed for time period between birth and 6 months of child’s age.

† Mean number of hospitalizations was 0.43 (SD=0.92; range, 0 to 4) with an average number of days hospitalized at 2.75 (SD=8.64; rage 0 to 54).

ǂ For marital status, social class, and all interactions, plus maternal sense of control, husband/boyfriend support, and age.

§ No difference (p>0.05) between nurse-visited children and comparison-group children for total sample and high-risk subgroup as well.

ǁ These numbers are total events (means and SDs are not reported).

**Abbreviations:** CI=confidence interval; G=group; KQ=key question; N=number; NA=not applicable; NR=not reported; NS=not sufficient; SD=standard deviation.