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| **Supplementary Table 1** Multivariable regression models of sample characteristics associated with child anaemia; Samoan island of Upolu, June-August 2015 |
| Characteristics | Resolved anaemia\*vs no anaemia (n=185) | Emergent anaemia\* vs no anaemia (n=170) |
| Adjusted RR | 95% CI | *P* value† | Adjusted RR | 95% CI | *P* value† |
| Region | Rest of Upolu | 1·00 | Ref. | - | 1·00 | Ref. | - |
|  | Apia Urban Area | 1·12 | 0·65, 1·94 | 0·685 | 0·92 | 0·45, 1·89 | 0·817 |
|  | Northwest Upolu | 1·22 | 0·75, 2·00 | 0·427 | 1·17 | 0·64, 2·11 | 0·611 |
| Child age (months) | 24-35 | 1·00 | Ref. | - | 1·00 | Ref. | - |
|  | 36-47 | 0·97 | 0·62, 1·53 | 0·903 | 1·30 | 0·69, 2·46 | 0·415 |
|  | 48-59 | 0·37 | 0·17, 0·79 | 0·011 | 0·63 | 0·32, 1·23 | 0·172 |
| Female child |  | 1·02 | 0·67, 1·55 | 0·931 | 0·73 | 0·43, 1·25 | 0·252 |
| Mother high school graduated |  | 0·83 | 0·54, 1·28 | 0·398 | 1·01 | 0·57, 1·80 | 0·972 |
| Total sodium intake (100 mg/day) |  | 0·97 | 0·94, 1·00 | 0·033 | 0·95 | 0·91, 0·99 | 0·023 |
| Maternal age | 18-29 | 1·00 | Ref. | - | 1·00 | Ref. | - |
|  | 30-39 | 1·01 | 0·64, 1·57 | 0·983 | 1·10 | 0·61, 2·01 | 0·745 |
|  | >=40 | 0·41 | 0·20, 0·86 | 0·018 | 0·76 | 0·39, 1·49 | 0·428 |

RR, relative risk; CI, confidence interval; Ref., reference category.

\*Resolved anaemia: anaemia in 2015 but not in 2017/18. Emergent anaemia: anaemia in 2017/18 but not in 2015.

†Conducted with the modified Poisson regression model since the log-binomial model did not converge.