## APPENDIX III: RELIABILITY TABLE

Reliability testing for Newborn Duration: metric rates for $2,000,5,000$, and 10,000 samples. Samples were constructed randomly three times for each sample size.

| 6 Months |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{N}=2,000$ |  |  | $\mathrm{N}=5,000$ |  |  | $\mathrm{N}=10,000$ |  |  |
|  | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 |
| IL | $\begin{gathered} 0.9320 \\ (0.9201,0.9426) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9405 \\ (0.9292,0.9505) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9340 \\ (0.9222,0.9445) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9472 \\ (0.9406,0.9532) \end{gathered}$ | $\begin{gathered} 0.9388 \\ (0.9318,0.9453) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9418 \\ (0.9349,0.9481) \end{gathered}$ | $\begin{gathered} 0.9396 \\ (0.9348,0.9442) \end{gathered}$ | $\begin{gathered} 0.9414 \\ (0.9366,0.9459) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9407 \\ (0.9359,0.9453) \end{gathered}$ |
| LA | $\begin{gathered} 0.9025 \\ (0.8887,0.9152) \end{gathered}$ | $\begin{gathered} 0.8925 \\ (0.8781,0.9057) \end{gathered}$ | $\begin{gathered} 0.8945 \\ (0.8802,0.9076) \end{gathered}$ | $\begin{gathered} 0.9028 \\ (0.8943,0.9109) \end{gathered}$ | $\begin{gathered} 0.9002 \\ (0.8916,0.9084) \end{gathered}$ | $\begin{gathered} 0.9004 \\ (0.8918,0.9086) \end{gathered}$ | $\begin{gathered} 0.8990 \\ (0.8929,0.9048) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9017 \\ (0.8957,0.9075) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8993 \\ (0.8932,0.9051) \\ \hline \end{gathered}$ |
| MT | $\begin{gathered} 0.8555 \\ (0.8393,0.8706) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8670 \\ (0.8513,0.8816) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8540 \\ (0.8378,0.8692) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8546 \\ (0.8445,0.8643) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8582 \\ (0.8482,0.8678) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8530 \\ (0.8429,0.8627) \end{gathered}$ |  | N/A |  |
| NC | $\begin{gathered} 0.9650 \\ (0.9560,0.9726) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9620 \\ (0.9527,0.9699) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9615 \\ (0.9521,0.9695) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9554 \\ (0.9493,0.9610) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9626 \\ (0.9570,0.9677) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9616 \\ (0.9559,0.9668) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9623 \\ (0.9584,0.9659) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9634 \\ (0.9595,0.9670) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9606 \\ (0.9566,0.9643) \\ \hline \end{gathered}$ |
| NH | $\begin{gathered} 0.8455 \\ (0.8289,0.8611) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8485 \\ (0.8320,0.8639) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8570 \\ (0.8409,0.8721) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8534 \\ (0.8433,0.8631) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8528 \\ (0.8427,0.8625) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8548 \\ (0.8447,0.8645) \\ \hline \end{gathered}$ |  | N/A |  |
| NY | $\begin{gathered} \hline 0.9500 \\ (0.9395,0.9591) \end{gathered}$ | $\begin{gathered} \hline 0.9575 \\ (0.9477,0.9659) \end{gathered}$ | $\begin{gathered} \hline 0.9540 \\ (0.9439,0.9628) \end{gathered}$ | $\begin{gathered} \hline 0.9514 \\ (0.9451,0.9572) \end{gathered}$ | $\begin{gathered} \hline 0.9486 \\ (0.9421,0.9546) \end{gathered}$ | $\begin{gathered} 0.9512 \\ (0.9449,0.9570) \end{gathered}$ | $\begin{gathered} \hline 0.9513 \\ (0.9469,0.9554) \end{gathered}$ | $\begin{gathered} \hline 0.9581 \\ (0.9540,0.9619) \end{gathered}$ | $\begin{gathered} \hline 0.9541 \\ (0.9498,0.9581) \end{gathered}$ |
| OR | $\begin{gathered} 0.9325 \\ (0.9206,0.9431) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9350 \\ (0.9233,0.9454) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9310 \\ (0.9190,0.9417) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9332 \\ (0.9259,0.9400) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9286 \\ (0.9211,0.9356) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9252 \\ (0.9176,0.9323) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9288 \\ (0.9236,0.9338) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9272 \\ (0.9219,0.9322) \end{gathered}$ | $\begin{gathered} 0.9310 \\ (0.9259,0.9359) \\ \hline \end{gathered}$ |
| UT | $\begin{gathered} 0.8885 \\ (0.8739,0.9020) \end{gathered}$ | $\begin{gathered} \hline 0.8870 \\ (0.8723,0.9006) \end{gathered}$ | $\begin{gathered} \hline 0.8910 \\ (0.8765,0.9043) \end{gathered}$ | $\begin{gathered} \hline 0.8838 \\ (0.8746,0.8926) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8904 \\ (0.8814,0.8989) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8872 \\ (0.8781,0.8958) \end{gathered}$ | $\begin{gathered} \hline 0.8876 \\ (0.8812,0.8937) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8878 \\ (0.8815,0.8939) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8899 \\ (0.8836,0.8960) \\ \hline \end{gathered}$ |
| 12 Months |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{N}=2,000$ |  |  | $\mathrm{N}=5,000$ |  |  | $\mathrm{N}=10,000$ |  |  |
|  | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 |
| IL | $\begin{gathered} \hline 0.8845 \\ (0.8697,0.8982) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8985 \\ (0.8844,0.9114) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8840 \\ (0.8691,0.8977) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9066 \\ (0.8982,0.9145) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8936 \\ (0.8847,0.9020) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8960 \\ (0.8872,0.9043) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8974 \\ (0.8913,0.9033) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8972 \\ (0.8911,0.9031) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.8997 \\ (0.8936,0.9055) \\ \hline \end{gathered}$ |
| LA | $\begin{gathered} 0.7455 \\ (0.7258,0.7645) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7390 \\ (0.7192,0.7581) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7490 \\ (0.7294,0.7679) \end{gathered}$ | $\begin{gathered} 0.7556 \\ (0.7434,0.7675) \end{gathered}$ | $\begin{gathered} 0.7598 \\ (0.7477,0.7716) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7620 \\ (0.7499,0.7737) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7538 \\ (0.7452,0.7622) \end{gathered}$ | $\begin{gathered} 0.7536 \\ (0.7450,0.7620) \end{gathered}$ | $\begin{gathered} 0.7553 \\ (0.7468,0.7637) \end{gathered}$ |
| MT | $\begin{gathered} 0.7500 \\ (0.7304,0.7688) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7585 \\ (0.7391,0.7771) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7440 \\ (0.7243,0.7630) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7528 \\ (0.7406,0.7647) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7524 \\ (0.7402,0.7643) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7500 \\ (0.7378,0.7620) \\ \hline \end{gathered}$ |  | N/A |  |
| NC | $\begin{gathered} 0.9205 \\ (0.9078,0.9320) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9200 \\ (0.9072,0.9315) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9180 \\ (0.9051,0.9297) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9070 \\ (0.8986,0.9149) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9088 \\ (0.9005,0.9166) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9180 \\ (0.9100,0.9255) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9172 \\ (0.9116,0.9225) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9164 \\ (0.9108,0.9218) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.9115 \\ (0.9058,0.9170) \\ \hline \end{gathered}$ |


| NH | $\begin{gathered} \hline 0.7170 \\ (0.6967,0.7367) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7165 \\ (0.6962,0.7362) \end{gathered}$ | $\begin{gathered} 0.7265 \\ (0.7064,0.7459) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7240 \\ (0.7114,0.7364) \end{gathered}$ | $\begin{gathered} 0.7230 \\ (0.7104,0.7354) \end{gathered}$ | $\begin{gathered} 0.7264 \\ (0.7138,0.7387) \end{gathered}$ | N/A |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NY | $\begin{gathered} 0.9000 \\ (0.8860,0.9128) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9000 \\ (0.8860,0.9128) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9070 \\ (0.8934,0.9194) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9070 \\ (0.8986,0.9149) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8990 \\ (0.8903,0.9072) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8956 \\ (0.8868,0.9039) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9021 \\ (0.8961,0.9079) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9086 \\ (0.9028,0.9142) \\ \hline \end{gathered}$ | $\begin{gathered} 0.9050 \\ (0.8991,0.9107) \\ \hline \end{gathered}$ |
| OR | $\begin{gathered} 0.8365 \\ (0.8196,0.8525) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8365 \\ (0.8196,0.8525) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8420 \\ (0.8253,0.8577) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8376 \\ (0.8271,0.8477) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8292 \\ (0.8185,0.8395) \end{gathered}$ | $\begin{gathered} 0.8236 \\ (0.8127,0.8341) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8289 \\ (0.8214,0.8362) \end{gathered}$ | $\begin{gathered} 0.8307 \\ (0.8232,0.8380) \end{gathered}$ | $\begin{gathered} 0.8359 \\ (0.8285,0.8431) \\ \hline \end{gathered}$ |
| UT | $\begin{gathered} 0.7860 \\ (0.7674,0.8038) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7740 \\ (0.7550,0.7922) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7945 \\ (0.7761,0.8120) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7786 \\ (0.7668,0.7900) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7868 \\ (0.7752,0.7981) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7878 \\ (0.7762,0.7991) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7823 \\ (0.7741,0.7904) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7840 \\ (0.7758,0.7920) \\ \hline \end{gathered}$ | $\begin{gathered} 0.7865 \\ (0.7783,0.7945) \\ \hline \end{gathered}$ |
| 18 Months |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{N}=2,000$ |  |  | $\mathrm{N}=5,000$ |  |  | $\mathrm{N}=10,000$ |  |  |
|  | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 | Sample 1 | Sample 2 | Sample 3 |
| IL | $\begin{gathered} 0.8345 \\ (0.8175,0.8505) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8535 \\ (0.8372,0.8687) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8330 \\ (0.8159,0.8491) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8568 \\ (0.8468,0.8664) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8464 \\ (0.8361,0.8563) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8468 \\ (0.8365,0.8567) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8570 \\ (0.8500,0.8638) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8540 \\ (0.8469,0.8609) \\ \hline \end{gathered}$ | $\begin{gathered} 0.8553 \\ (0.8483,0.8621) \\ \hline \end{gathered}$ |
| LA | $\begin{gathered} 0.6090 \\ (0.5872,0.6305) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6085 \\ (0.5867,0.6300) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6045 \\ (0.5827,0.6260) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6222 \\ (0.6086,0.6357) \end{gathered}$ | $\begin{gathered} 0.6286 \\ (0.6150,0.6420) \end{gathered}$ | $\begin{gathered} 0.6184 \\ (0.6048,0.6319) \end{gathered}$ | $\begin{gathered} 0.6161 \\ (0.6065,0.6256) \end{gathered}$ | $\begin{gathered} 0.6250 \\ (0.6154,0.6345) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6161 \\ (0.6065,0.6256) \end{gathered}$ |
| MT | $\begin{gathered} 0.4875 \\ (0.4654,0.5097) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4810 \\ (0.4589,0.5032) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4675 \\ (0.4454,0.4897) \end{gathered}$ | $\begin{gathered} 0.4726 \\ (0.4587,0.4866) \end{gathered}$ | $\begin{gathered} 0.4776 \\ (0.4637,0.4916) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4762 \\ (0.4623,0.4902) \end{gathered}$ | N/A |  |  |
| NC | $\begin{gathered} 0.6740 \\ (0.6530,0.6945) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6780 \\ (0.6570,0.6985) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6805 \\ (0.6596,0.7009) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6854 \\ (0.6723,0.6983) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6852 \\ (0.6721,0.6981) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6896 \\ (0.6766,0.7024) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.6915 \\ (0.6823,0.7005) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.6917 \\ (0.6825,0.7007) \\ \hline \end{gathered}$ | $\begin{gathered} \hline 0.6824 \\ (0.6732,0.6915) \\ \hline \end{gathered}$ |
| NH | $\begin{gathered} 0.5635 \\ (0.5414,0.5854) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5720 \\ (0.5500,0.5938) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5950 \\ (0.5731,0.6166) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5830 \\ (0.5692,0.5967) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5790 \\ (0.5652,0.5927) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5838 \\ (0.5700,0.5975) \\ \hline \end{gathered}$ | N/A |  |  |
| NY | $\begin{gathered} 0.5890 \\ (0.5671,0.6107) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5950 \\ (0.5731,0.6166) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5900 \\ (0.5681,0.6117) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6046 \\ (0.5909,0.6182) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5974 \\ (0.5837,0.6110) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5938 \\ (0.5800,0.6075) \\ \hline \end{gathered}$ | $\begin{gathered} 0.5947 \\ (0.5850,0.6043) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6000 \\ (0.5903,0.6096) \\ \hline \end{gathered}$ | $\begin{gathered} 0.6047 \\ (0.5950,0.6143) \\ \hline \end{gathered}$ |
| OR | $\begin{gathered} 0.3995 \\ (0.3779,0.4214) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4070 \\ (0.3854,0.4289) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4200 \\ (0.3982,0.4420) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4080 \\ (0.3943,0.4218) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4150 \\ (0.4013,0.4288) \end{gathered}$ | $\begin{gathered} 0.4046 \\ (0.3910,0.4184) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4086 \\ (0.3989,0.4183) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4047 \\ (0.3951,0.4144) \\ \hline \end{gathered}$ | $\begin{gathered} 0.4015 \\ (0.3919,0.4112) \\ \hline \end{gathered}$ |
| UT | $\begin{gathered} 0.3820 \\ (0.3606,0.4037) \end{gathered}$ | $\begin{gathered} 0.3935 \\ (0.3720,0.4153) \end{gathered}$ | $\begin{gathered} 0.3935 \\ (0.3720,0.4153) \end{gathered}$ | $\begin{gathered} 0.3852 \\ (0.3717,0.3989) \end{gathered}$ | $\begin{gathered} 0.3980 \\ (0.3844,0.4117) \end{gathered}$ | $\begin{gathered} 0.3926 \\ (0.3790,0.4063) \end{gathered}$ | $\begin{gathered} 0.3928 \\ (0.3832,0.4025) \end{gathered}$ | $\begin{gathered} 0.3876 \\ (0.3780,0.3972) \end{gathered}$ | $\begin{gathered} 0.3912 \\ (0.3816,0.4008) \end{gathered}$ |

