**Supplement 1.** Components of the pediatric Rothman Index

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| **Category** | **Variable** |
| Vital signs | Diastolic blood pressure  Heart rate  Oxygen saturation  Respiratory rate  Systolic blood pressure  Temperature |
| Laboratory values | Blood urea nitrogen  Chloride  Creatinine  Hemoglobin  Potassium  Sodium  White blood cell count |
| Cardiac rhythm | |
| Braden Q scale | |
| Nursing assessments of organ systems\* | Cardiac  Food  Gastrointestinal  Genitourinary  Musculoskeletal  Neurological  Peripheral vascular  Psychosocial  Respiratory  Safety  Skin |
| \*Nursing assessment data are collected in the course of the head-to-toe evaluation performed at least once per nursing shift. During each nursing assessment, each body system is assessed as “within normal limits” or not, according to institutional standards. | |

**Supplement 2.** Relationship ofabnormal organ systems to escalation orders, clinician notes, and acuity alerts

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| **Organ system** | **Total CDEs with organ system abnormal, n\*** | **CDE with order and/or note before pRI alert, n (%)** | **CDE with pRI alert before order or note, n** |
| Cardiac | 3 | 3 (100) | 0 (0) |
| Food | 3 | 2 (66) | 1 (33) |
| Gastrointestinal | 4 | 4 (100) | 0 (0) |
| Genitourinary | 6 | 6 (100) | 0 (0) |
| Musculoskeletal | 1 | 1 (100) | 0 (0) |
| Neurological | 7 | 7 (100) | 0 (0) |
| Peripheral vascular | 2 | 1 (50) | 1 (50) |
| Psychosocial | 2 | 2 (100) | 0 (0) |
| Respiratory | 4 | 3 (75) | 1 (25) |
| Safety | 0 | 0 (0) | 0 (0) |
| Skin | 1 | 0 (0) | 1 (100) |
| None\*\* | 20 | 18 (90) | 2 (10) |
| \*This total exceeds 39 total CDEs because some CDEs had more than one abnormal organ system  \*\*No organ system abnormal means that pRI alert was generated by laboratory values and/or vital signs only | | | |