

Table 2-2 TRALI, TACO症例報告詳細

| 副作用   | 症例 | SpO <sub>2</sub> の変化 | 酸素投与                       | 血圧変化            | 脈拍の変化    | 発熱の有無     | 肺水腫 | 肺水腫(詳細)        |
|-------|----|----------------------|----------------------------|-----------------|----------|-----------|-----|----------------|
| TRALI | 1  |                      |                            | (-)             | (-)      | (-)       | 有   |                |
| TRALI | 2  | 146.4→105.3          | 0 → 5 l                    | 127/75 → 179/85 | 93 → 107 | 36.8→37.5 |     | すりガラス陰影        |
| TRALI | 3  | 100%→80%             |                            | (-)             | (-)      | (-)       | 有   | 気管内チューブ:肺水腫様液体 |
| TRALI | 4  | 60                   | 10L                        | 88→173          | 72→116   | 36.6→38.6 | 有   | 両側性            |
| TRALI | 5  | 96→70                | 15L                        | 106/66→152/81   | 95→150   | 37.0→38.6 | 有   | 肺うっ血あり         |
| TRALI | 6  | (-)                  |                            | 128/78→86/56    |          | (-)       | 有   | びまん性の透過性低下     |
| TRALI | 7  | 95→76                | 0→3→10→15L                 | 154/83→237/13   | 95→131   | (-)       | 有   | 両側びまん性浸潤影      |
| TRALI | 8  | 90→80                |                            | 100→70          | (-)      | (-)       | 無   |                |
| TRALI | 9  | 98.9→91.8            | マスク10L/min                 | 123/51→164/60   | 80→108   | (-)       | 無   |                |
| TRALI | 10 | 95                   | FiO <sub>2</sub> 0.35      | (-)             | (-)      | 38        | 有   |                |
| TRALI | 11 | 95→93                | 0→3L/分マスク                  | (-)             | 74→135   | 36.7→38.4 | 有   | 両側性浸潤影         |
| TRALI | 12 | 100→90台              | 挿管中→FiO <sub>2</sub> 0.6   | (-)             | (-)      | (-)       | 有   | 左右上葉～中葉:透過性低下  |
| TACO  | 1  | 99.6→92.3            | 10 l/min                   | 98→68           | 144→130  | (-)       | 有   |                |
| TACO  | 2  |                      |                            |                 |          |           |     |                |
| TACO  | 3  | 99→81                | 人工呼吸管理                     | 100→70          | (-)      | (-)       | 有   | 両側性            |
| TACO  | 4  | 95→87                |                            | (-)             | 51→60~70 | (-)       | 無   |                |
| TACO  | 5  | →70                  | 0L→RM 15L                  | 121/58→183/97   | 122→140  | 37→38.4   | 有   | 両側上葉までうっ血像強く   |
| TACO  | 6  | 96→80                |                            | 148/87→213/122  | 86→130   | (-)       | 有   |                |
| TACO  | 7  | 99~100%→85%          | 吹きつけ15リットル                 | 115/73→140/88   | 100→120  | (-)       | 有   |                |
| TACO  | 8  | (-)                  |                            | (-)             | (-)      | (-)       | 有   | 左肺             |
| TACO  | 9  | 98→73                | O <sub>2</sub> 5L/min      | 116/64⇒137/83   | 105⇒125  | (-)       | 有   | 片側性浸潤影         |
| TACO  | 10 | 95%→94%              | 2l/m→5l/m                  | 136/61→150/86   | 98→120   | 36.6→38.3 | 有   | 浸潤影あり(両側性)     |
| TACO  | 11 | 99.3→92.5            | FiO <sub>2</sub> 50%→マスク8L | (-)             | 120→103  | (-)       | 有   | 両側性浸潤影         |

Table 2-3 TRALI, TACO症例報告詳細

| 副作用例     | 心拡大 | 心拡大(詳細)             | NT-proBNP(pg/mL) | 輸血前後の水分バランス                                       | 製剤顆粒球抗体 | 製剤HLA抗体               | 患者血液中HLA抗体              |
|----------|-----|---------------------|------------------|---------------------------------------------------|---------|-----------------------|-------------------------|
| TRALI 1  | 無   |                     |                  |                                                   | (-)     | (-)                   | (-)                     |
| TRALI 2  | 有   |                     |                  |                                                   | (-)     | (-)                   | IgM性                    |
| TRALI 3  | 無   |                     |                  |                                                   | (-)     | (-)                   | (-)                     |
| TRALI 4  | 有   | CTR 49%→55%         |                  |                                                   | 未検査     | 未検査                   | (-)                     |
| TRALI 5  | 無   |                     |                  |                                                   | (-)     | class I、class II 抗体陽性 | (-)                     |
| TRALI 6  | 有   | CTR 50%→60%         |                  |                                                   | 未検査     | 未検査                   | (-)                     |
| TRALI 7  | 無   |                     |                  | in/outは1854/1650                                  | (-)     | (-)                   | class I 陰性、class II 陽性  |
| TRALI 8  | 無   |                     |                  |                                                   | 未検査     | 未検査                   | (-)                     |
| TRALI 9  | 無   |                     |                  |                                                   | 未検査     | (-)                   | (-)                     |
| TRALI 10 | 無   |                     |                  |                                                   | (-)     | (-)                   | (-)                     |
| TRALI 11 | 無   |                     | 輸血前1111.0pg/ml   | 輸血前高度の脱水                                          | (-)     | class I 陽性            | (-)                     |
| TRALI 12 | 無   |                     |                  |                                                   | 未検査     | 未検査                   | class I 陽性              |
| TACO 1   | 有   |                     | 輸血前5,300pg/ml    |                                                   | (-)     | 陽性                    | (-)                     |
| TACO 2   |     |                     |                  |                                                   |         |                       |                         |
| TACO 3   | 有   | CTR58%              |                  |                                                   | 未検査     | 未検査                   | (-)                     |
| TACO 4   | 無   |                     |                  |                                                   | 未検査     | 未検査                   | 陽性                      |
| TACO 5   | 有   | CTR評価困難             |                  |                                                   | 未検査     | 未検査                   | 未検査                     |
| TACO 6   | 無   |                     |                  |                                                   | 未検査     | 未検査                   | 未検査                     |
| TACO 7   | 無   |                     |                  | 前日:輸血360ml、輸液480ml、尿量948ml→当日:輸血200ml、尿量1275      | (-)     | (-)                   | (-)                     |
| TACO 8   | 有   | CTR55%→64%          |                  |                                                   | (-)     | (-)                   | (-)                     |
| TACO 9   | 有   | 58.0%(立位)→52.4%(臥位) |                  | 輸血量500ml+輸液量700~1000ml→尿量 500ml                   | (-)     | (-)                   | (-)                     |
| TACO 10  | 無   |                     |                  | 前日:輸液300ml、当日:輸血3500ml、輸液300ml、翌日:輸液300ml(ECOM除水) | 未検査     | 未検査                   | 未検査                     |
| TACO 11  | 無   |                     | 88→834pg/ml      | IN6880mlIOUT900ml                                 | (-)     | (-)                   | class I、class II とともに陽性 |

### Ⅲ. 研究協力者報告

血管内容量の負荷による肺水腫の発生に関する研究  
 -TACO の発生機序の解明への基礎的研究

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実験的な TACO を再現するため、容量負荷を晶質液と膠質液である HES (Hydroxyethyl starch でんぷん液) で行い、輸血による容量負荷による呼吸機能への影響を比較検討した。

【方法】

対象として、健康な LW 種 SPF ブタを用いた。6%イソフルランで麻酔導入後に気管挿管を行い、イソフルラン 1.5~2%で維持し、調節呼吸とした。挿管後に、静脈路と血行動態のパラメータの計測を目的として各種カニューレションを行った。

輸血 (ブタ全血：前日に他の個体より採血) の投与方法は、投与前の循環血液量 (BV) を BV1 とし、BV1 の 25%相当量を 30 分ごとに投与し、合計で 25%、50%、75%、100%負荷した時点の BV、心拍出量 (CO)、peak negative dP/dt および P/F 比を測定した (Fig.1)。同様の負荷をハイドロキシエチルスターチ (今年、新たに日本で承認された HES130、商品名ボルベン輸液 6%) およびリンゲル液でも行い、それぞれ輸血群 (n = 5)、HES130 群 (n = 5) およびリンゲル群 (n = 5) とした。

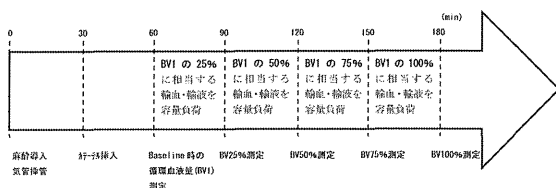


Fig.1

【結果】

輸血群で 1 例 BV100%の負荷により血圧が低下し、心停止に至ったが、他の群ではすべて実験終了時には生存した。

容量負荷の効果

HES130 では負荷した量が BV に反映し、効率的な容量負荷ができていたことが確認されたが、輸血では容量負荷による効果は少なく、リンゲル液と変わりなかった。その原因は現在検討中である。

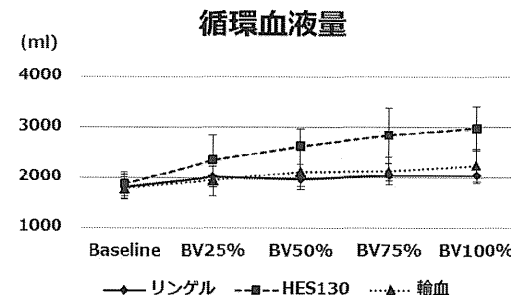


Fig.2

輸血群では心停止症例のデータは含まれていない。

心機能の変化

HES130 では、CO は 50%負荷時まで有意に増加した。これは、血管内容量増加に伴う心機能の亢進により、心臓が代償的に働いたと考察した。50%負荷を越えると CO は低下傾向となり、心臓が代償しきれずに非代償期に入ったことが推察された。ただし、100%負荷時の CO は対照値と同レ

ベルであり、心機能の破綻までには至らなかった。輸血あるいはリンゲル液の負荷では、HES130のような効果は認められなかった。

左室拡張能の指標である peak negative dP/dt は、輸血、HES130、リンゲル液とも50%負荷までは保たれていたが、それ以上では心臓が代償しきれていなかった。

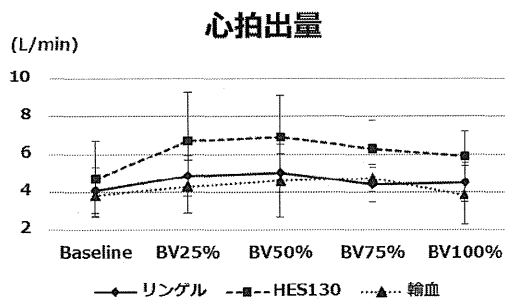


Fig.3

輸血群では心停止症例のデータは含まれていない。

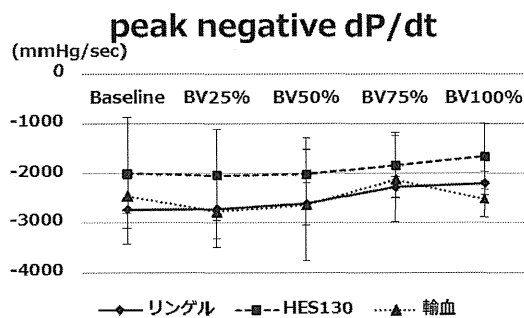


Fig.4

輸血群では心停止症例のデータは含まれていない。

### 呼吸機能

HES130では、容量負荷量に依存してP/Fは低下した。しかし、急性肺障害の定義である P/F300 以下までには至らなかった。輸血では、25%負荷時には上昇を認めたが、

それ以上の容量負荷で低下しており、100%負荷時には P/F300 以下を切っており、急性肺障害が疑われた。リンゲル液の負荷では、変化を認めなかった。

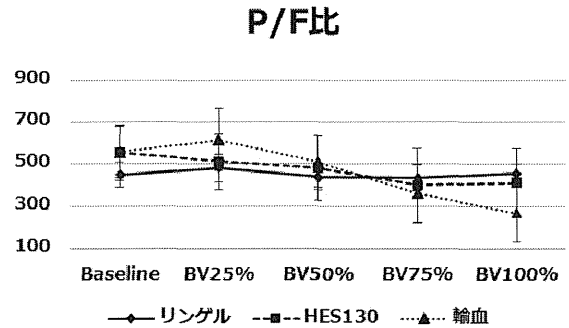


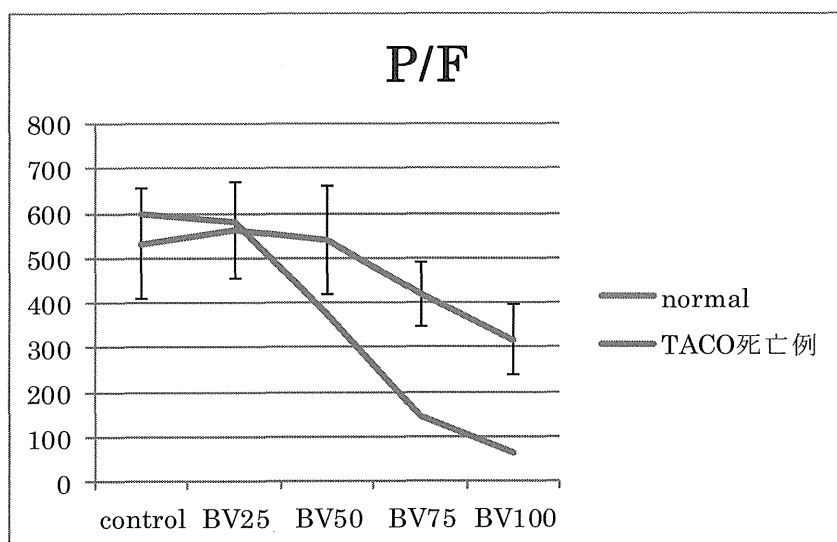
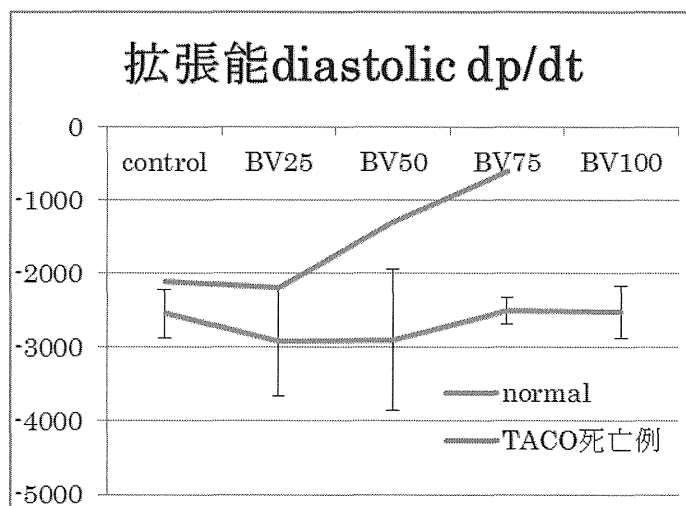
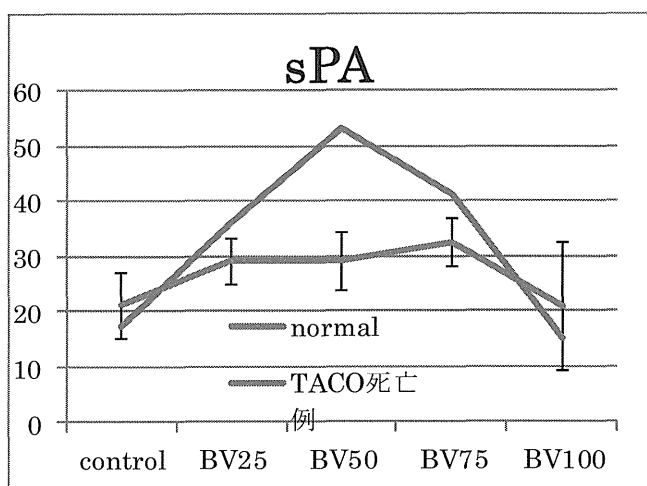
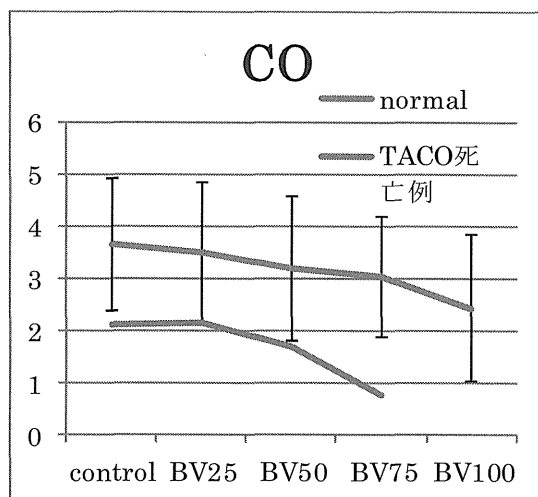
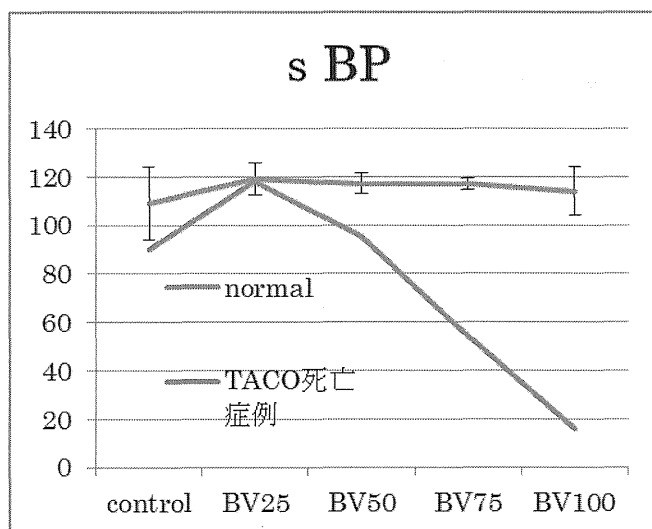
Fig.5

輸血群の心停止症例のデータが含まれている。

### 【考察】

容量負荷を効率的に行う HES では酸素化は低下するものの呼吸不全には至らない。輸血は HES と比較し十分な容量負荷効果は得られず、また、呼吸機能への影響もわずかであった。輸血群での一例の死亡例は、BV50%投与時点から拡張能の障害が認められ、心不全で死亡した。これが TACO の病態と考えるかは議論のあるところである。

## TACO 死亡例と他の比較



# 輸血と SpO<sub>2</sub> (東邦大学医療センター大森病院)

東邦大学医療センター大森病院

血液・腫瘍科、化学療法センター

名取一彦

- ・当院での輸血による SpO<sub>2</sub> の結果について報告いたします。
- ・2013 年 11 月 13 日より開始し、26 日のミーティングで輸血後 6 時間とのことであったが、入院の患者さんでも消灯後になり計測不可能の症例が多くなるため、開始後 6 時間とした。
- ・計測開始は 11 月 13 日であるが、開始後 6 時間の計測が始まったのは 11 月 27 日である。
- ・全例計測は達成されていない。
- ・外来輸血症例は開始後 6 時間は計測されていない。終了時までの 3 回である。6 時間後の状態は、帰宅後体調不良の場合、救急外来受診を指示しているが受診症例はなかった。

## 濃厚赤血球輸血

全症例 66 例

全輸血数 383 回

入院 173 回

11 月 27 日以前(3 回計測)

20/36(計測率 55.6%)

11 月 27 日以降(4 回計測)

127/137(計測率 92.7%)

外来 210 回

207/210(計測率 98.6%)

副作用なし

## 濃厚血小板輸血

全症例 44 例

全輸血数 309 回

入院(3 回/4 回)

192 回

11 月 27 日以前(3 回計測)

15/34(計測率 44.1%)

11 月 27 日以降(4 回計測)

144/158(計測率 91.1%)

外来(3 回)

117 回

207/210(計測率 98.6%)

副作用 1 件(蕁麻疹)

以上

PLT入院、外来 (東邦大)

| No | DATE     | WARD | SEX | Age | Diag.   | Unit | Allergy | Pre | after | After | 6hrs |
|----|----------|------|-----|-----|---------|------|---------|-----|-------|-------|------|
| 1  | 013.11.1 | IN   | F   |     | AML M0  | 10   | N       |     |       |       |      |
| 2  | 013.11.1 | IN   | M   |     | MDS     | 10   | N       | 97  | 98    | 99    |      |
| 3  | 013.11.1 | IN   | M   |     | ALL     | 10   | N       |     |       |       |      |
| 4  | 013.11.1 | IN   | M   |     | AML M0  | 10   | N       |     |       |       |      |
| 5  | 013.11.1 | IN   | M   |     | ALL     | 10   | N       | 96  | 96    | 96    |      |
| 6  | 013.11.1 | IN   | F   |     | AML M0  | 10   | N       | 99  | 98    | 99    |      |
| 7  | 013.11.1 | IN   | M   |     | AML M0  | 10   | N       | 99  | 98    | 99    |      |
| 8  | 013.11.1 | IN   | M   |     | ALL     | 10   | N       | 95  | 94    |       |      |
| 9  | 013.11.1 | IN   | M   |     | AML M0  | 10   | N       | 98  | 96    | 98    |      |
| 10 | 013.11.1 | IN   | M   |     | AML M0  | 10   | N       | 99  | 100   | 100   |      |
| 11 | 013.11.1 | IN   | F   |     | ALL     | 5    | N       |     |       |       |      |
| 12 | 013.11.1 | IN   | F   |     | ALL     | 5    | N       |     |       |       |      |
| 13 | 013.11.1 | IN   | F   |     | MDS     | 10   | N       | 97  | 96    | 96    |      |
| 14 | 013.11.1 | IN   | F   |     | AML M0  | 10   | N       | 97  | 98    | 98    |      |
| 15 | 013.11.1 | IN   | M   |     | ALL     | 10   | N       |     |       |       |      |
| 16 | 013.11.2 | IN   | M   |     | MDS     | 10   | N       |     |       |       |      |
| 17 | 013.11.2 | IN   | F   |     | MDS     | 10   | N       | 98  | 98    | 97    |      |
| 18 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       |     |       |       |      |
| 19 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       |     |       |       |      |
| 20 | 013.11.2 | IN   | M   |     | NHL TL  | 10   | N       |     |       |       |      |
| 21 | 013.11.2 | IN   | F   |     | ITP     | 10   | N       |     |       |       |      |
| 22 | 013.11.2 | IN   | F   |     | MDS     | 10   | N       | 97  | 97    | 97    |      |
| 23 | 013.11.2 | IN   | F   |     | MDS     | 10   | N       |     |       |       |      |
| 24 | 013.11.2 | IN   | F   |     | ITP     | 10   | N       |     |       |       |      |
| 25 | 013.11.2 | IN   | M   |     | ALL     | 10   | N       |     |       |       |      |
| 26 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       | 98  | 97    | 98    |      |
| 27 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       | 98  | 98    | 98    |      |
| 28 | 013.11.2 | IN   | M   |     | ALL     | 10   | N       |     |       |       |      |
| 29 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       | 98  | 95    | 88    |      |
| 30 | 013.11.2 | IN   | M   |     | AML M0  | 5    | N       | 95  | 95    | 95    |      |
| 31 | 013.11.2 | IN   | M   |     | AML M0  | 5    | N       | 95  | 95    | 95    |      |
| 32 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       |     |       |       |      |
| 33 | 013.11.2 | IN   | F   |     | NHL     | 10   | N       |     |       |       |      |
| 34 | 013.11.2 | IN   | M   |     | NHL     | 10   | N       |     |       |       |      |
| 35 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       | 96  | 95    | 95    | 95   |
| 36 | 013.11.2 | IN   | M   |     | ALL     | 10   | N       | 96  | 96    | 97    | 97   |
| 37 | 013.11.2 | IN   | M   |     | APL BMT | 10   | N       | 98  | 97    | 98    | 98   |
| 38 | 013.11.2 | IN   | F   |     | MDS     | 10   | N       | 99  | 97    | 99    | 97   |
| 39 | 013.11.2 | IN   | M   |     | AML M0  | 10   | N       | 97  | 97    | 97    | 96   |
| 40 | 013.11.2 | IN   | F   |     | MDS     | 10   | N       | 97  | 98    | 98    | 98   |
| 41 | 013.11.2 | IN   | M   |     | AML M0  | 5    | N       | 98  | 97    | 97    | 97   |
| 42 | 013.11.2 | IN   | M   |     | AML M0  | 5    | N       | 97  | 98    | 97    | 97   |
| 43 | 013.11.2 | IN   | M   |     | ALL     | 10   | N       | 94  | 94    | 94    | 95   |
| 44 | 013.11.2 | IN   | M   |     | APL BMT | 10   | N       | 99  | 98    | 97    | 97   |
| 45 | 013.11.2 | IN   | F   |     | NHL     | 10   | N       | 96  | 95    | 95    | 98   |
| 46 | 013.11.2 | IN   | M   |     | MMBMT   | 5    | N       | 97  | 98    | 97    | 97   |
| 47 | 013.11.2 | IN   | M   |     | MMBMT   | 5    | N       | 97  | 97    | 97    | 97   |
| 48 | 013.11.3 | IN   | F   |     | MDS     | 10   | N       | 97  | 97    | 98    | 98   |
| 49 | 013.12.  | IN   | M   |     | ALL     | 10   | N       | 95  | 94    | 94    | 95   |
| 50 | 013.12.  | IN   | M   |     | AML M0  | 10   | N       | 97  | 96    | 96    | 97   |
| 51 | 013.12.  | IN   | F   |     | NHL     | 10   | N       | 97  | 97    | 95    | 98   |
| 52 | 013.12.  | IN   | M   |     | APL BMT | 10   | N       | 96  | 98    | 97    | 96   |
| 53 | 013.12.  | IN   | M   |     | MMBMT   | 10   | N       | 96  | 95    | 95    |      |
| 54 | 013.12.  | IN   | M   |     | AML M0  | 10   | N       | 97  | 95    | 96    | 97   |
| 55 | 013.12.  | IN   | M   |     | ALL     | 10   | N       | 95  | 95    | 97    |      |
| 56 | 013.12.  | IN   | M   |     | ALL     | 10   | N       | 96  | 96    |       |      |
| 57 | 013.12.3 | IN   | F   |     | ALL     | 10   | N       |     |       |       |      |
| 58 | 013.12.4 | IN   | M   |     | ALL     | 10   | N       | 97  | 97    | 97    | 96   |
| 59 | 013.12.7 | IN   | F   |     | ALL     | 10   | N       | 99  | 99    | 99    | 99   |
| 60 | 013.12.7 | IN   | M   |     | AML M0  | 10   | N       |     |       |       |      |
| 61 | 013.12.9 | IN   | M   |     | ALL     | 20   | N       | 97  | 97    | 97    | 96   |
| 62 | 013.12.1 | IN   | F   |     | AML M0  | 10   | N       | 99  | 99    | 96    | 97   |
| 63 | 013.12.1 | IN   | F   |     | ALL     | 5    | N       | 99  | 99    | 99    | 98   |
| 64 | 013.12.1 | IN   | F   |     | ALL     | 5    | N       | 99  | 99    | 99    | 99   |
| 65 | 013.12.1 | IN   | F   |     | AA      | 10   | N       |     |       |       |      |
| 66 | 013.12.1 | IN   | F   |     | ALL     | 10   | N       | 99  | 99    | 99    | 99   |
| 67 | 013.12.1 | IN   | M   |     | MDS     | 5    | N       |     |       |       |      |
| 68 | 013.12.1 | IN   | M   |     | MDS     | 5    | N       |     |       |       |      |
| 69 | 013.12.1 | IN   | M   |     | ALL     | 10   | N       | 96  | 96    | 95    | 95   |
| 70 | 013.12.1 | IN   | M   |     | MDS     | 10   | N       |     |       |       |      |
| 71 | 013.12.1 | IN   | M   |     | MDS     | 10   | N       | 95  | 95    | 95    | 97   |
| 72 | 013.12.1 | IN   | M   |     | ALL     | 10   | N       | 95  | 97    | 96    | 96   |
| 73 | 013.12.1 | IN   | F   |     | ALL     | 10   | N       | 99  | 99    | 99    | 99   |
| 74 | 013.12.1 | IN   | F   |     | AML M0  | 10   | N       | 96  | 96    | 96    | 95   |
| 75 | 013.12.1 | IN   | F   |     | ALL     | 5    | N       | 99  | 99    | 99    | 99   |
| 76 | 013.12.1 | IN   | F   |     | ALL     | 5    | N       | 99  | 99    | 97    | 99   |
| 77 | 013.12.1 | IN   | F   |     | MMBMT   | 10   | N       | 97  | 99    | 98    | 98   |
| 78 | 013.12.1 | IN   | M   |     | ALL     | 10   | N       | 96  | 96    | 96    | 94   |



No

|     | DATE      | WARD | SEX | Age | Diag.  | Unit | Allergy | Pre | after | After | 6hrs |
|-----|-----------|------|-----|-----|--------|------|---------|-----|-------|-------|------|
| 79  | 013.12.1  | IN   | F   |     | MMBMT  | 10   | N       | 95  | 96    | 97    | 99   |
| 80  | 013.12.1  | IN   | M   |     | APL    | 10   | N       | 98  | 98    | 95    | 98   |
| 81  | 013.12.1  | IN   | M   |     | ALL    | 10   | N       | 97  | 98    | 97    | 96   |
| 82  | 013.12.1  | IN   | M   |     | MDS    | 5    | N       |     |       |       |      |
| 83  | 013.12.1  | IN   | M   |     | MDS    | 5    | N       |     |       |       |      |
| 84  | 013.12.1  | IN   | M   |     | ITP    | 10   | N       | 97  | 97    | 97    | 97   |
| 85  | 013.12.1  | IN   | M   |     | APL    | 10   | N       | 99  | 99    | 98    | 99   |
| 86  | 013.12.1  | IN   | F   |     | AML M0 | 10   | N       | 98  | 99    | 97    | 98   |
| 87  | 013.12.1  | IN   | F   |     | MMBMT  | 10   | N       | 97  | 98    | 97    | 97   |
| 88  | 013.12.1  | IN   | M   |     | AML M0 | 10   | N       | 99  | 99    | 98    | 98   |
| 89  | 013.12.2  | IN   | M   |     | ALL    | 10   | N       | 97  | 97    | 97    | 96   |
| 90  | 013.12.2  | IN   | F   |     | AML M0 | 10   | N       | 98  | 98    | 98    | 97   |
| 91  | 013.12.2  | IN   | F   |     | MMBMT  | 10   | N       | 98  | 99    | 99    | 97   |
| 92  | 013.12.2  | IN   | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 99   |
| 93  | 013.12.2  | IN   | M   |     | AML M5 | 10   | N       | 94  | 96    | 97    | 96   |
| 94  | 013.12.2  | IN   | F   |     | MMBMT  | 10   | N       | 97  | 99    | 99    | 96   |
| 95  | 013.12.2  | IN   | F   |     | AML M0 | 10   | N       | 98  | 99    | 97    | 97   |
| 96  | 013.12.2  | IN   | M   |     | ALL    | 10   | N       | 98  | 97    | 98    | 97   |
| 97  | 013.12.2  | IN   | M   |     | AML M0 | 10   | N       | 97  | 99    | 99    | 99   |
| 98  | 013.12.2  | IN   | F   |     | MDS    | 10   | N       | 94  | 96    | 96    | 99   |
| 99  | 013.12.2  | IN   | F   |     | AA     | 10   | N       | 98  | 98    | 97    | 99   |
| 100 | 013.12.2  | IN   | M   |     | ATLL   | 5    | N       | 95  | 95    | 95    | 93   |
| 101 | 013.12.2  | IN   | M   |     | ATLL   | 5    | N       | 95  | 94    | 94    | 96   |
| 102 | 013.12.2  | IN   | F   |     | MDS    | 5    | N       | 94  | 95    | 94    | 95   |
| 103 | 013.12.2  | IN   | F   |     | MDS    | 5    | N       | 95  | 94    | 94    | 99   |
| 104 | 013.12.2  | IN   | F   |     | MM     | 5    | N       | 97  | 96    | 96    | 97   |
| 105 | 013.12.2  | IN   | F   |     | MM     | 5    | N       | 96  | 96    | 96    | 97   |
| 106 | 013.12.2  | IN   | F   |     | AA     | 10   | N       | 95  | 95    | 95    | 96   |
| 107 | 013.12.2  | IN   | M   |     | ATLL   | 10   | N       | 85  | 83    | 81    | 85   |
| 108 | 013.12.2  | IN   | M   |     | AML M5 | 10   | N       | 97  | 98    | 98    | 98   |
| 109 | 013.12.2  | IN   | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 99   |
| 110 | 013.12.2  | IN   | M   |     | ALL    | 10   | N       | 97  | 94    | 96    | 98   |
| 111 | 013.12.2  | IN   | M   |     | AML M0 | 10   | N       | 98  | 99    | 99    | 99   |
| 112 | 013.12.2  | IN   | M   |     | ALL    | 10   | N       | 98  | 97    | 99    | 96   |
| 113 | 013.12.3  | IN   | M   |     | ALL    | 10   | N       | 97  | 97    | 98    |      |
| 114 | 013.12.3  | IN   | M   |     | AML M0 | 10   | N       | 97  | 97    | 97    | 98   |
| 115 | 013.12.3  | IN   | F   |     | AML M0 | 10   | N       | 97  | 97    | 98    | 97   |
| 116 | 013.12.3  | IN   | M   |     | AML M5 | 10   | N       | 99  | 97    | 99    | 98   |
| 117 | 013.12.3  | IN   | M   |     | AML M5 | 10   | N       | 94  | 96    | 96    | 97   |
| 118 | 2014.1.2  | IN   | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 99   |
| 119 | 2014.1.4  | IN   | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 98   |
| 120 | 2014.1.6  | IN   | M   |     | MDS    | 10   | N       | 98  | 98    | 95    | 97   |
| 121 | 2014.1.6  | IN   | M   |     | APL    | 10   | N       | 94  | 95    | 98    | 99   |
| 122 | 2014.1.7  | IN   | M   |     | MDS    | 10   | N       | 98  | 97    | 98    | 98   |
| 123 | 2014.1.7  | IN   | M   |     | APL    | 10   | N       | 97  | 99    | 99    | 99   |
| 124 | 2014.1.8  | IN   | M   |     | MDS    | 10   | N       | 97  | 96    | 98    | 98   |
| 125 | 2014.1.8  | IN   | M   |     | APL    | 10   | N       | 99  | 99    | 99    | 98   |
| 126 | 2014.1.8  | IN   | M   |     | AML M0 | 10   | N       | 97  | 97    | 98    | 98   |
| 127 | 2014.1.9  | IN   | M   |     | MDS    | 10   | N       | 99  | 98    |       |      |
| 128 | 2014.1.10 | IN   | M   |     | ALL    | 10   | N       | 96  | 96    | 96    | 97   |
| 129 | 2014.1.10 | IN   | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 99   |
| 130 | 2014.1.10 | IN   | M   |     | APL    | 5    | N       | 97  | 98    | 98    | 97   |
| 131 | 2014.1.10 | IN   | M   |     | APL    | 5    | N       | 98  | 98    | 96    | 96   |
| 132 | 2014.1.12 | IN   | M   |     | AML M0 | 10   | N       | 98  | 99    | 99    |      |
| 133 | 2014.1.12 | IN   | M   |     | ALL    | 10   | N       | 96  | 96    | 96    | 98   |
| 134 | 2014.1.12 | IN   | M   |     | MDS    | 10   | N       | 97  | 96    | 97    | 98   |
| 135 | 2014.1.12 | IN   | M   |     | AML M0 | 5    | N       | 97  | 97    | 96    | 99   |
| 136 | 2014.1.14 | IN   | M   |     | AML M0 | 5    | N       | 98  | 97    | 96    | 99   |
| 137 | 2014.1.14 | IN   | M   |     | AML M1 | 10   | N       | 97  | 97    | 97    | 98   |
| 138 | 2014.1.14 | IN   | M   |     | ALL    | 10   | N       | 95  | 97    | 98    | 98   |
| 139 | 2014.1.16 | IN   | M   |     | APL    | 10   | N       | 97  | 98    | 99    | 99   |
| 140 | 2014.1.17 | IN   | M   |     | ALL    | 10   | N       | 98  | 97    | 99    | 99   |
| 141 | 2014.1.17 | IN   | M   |     | MDS    | 10   | N       | 95  | 95    | 95    | 97   |
| 142 | 2014.1.17 | IN   | M   |     | APL    | 10   | N       | 96  | 94    | 96    | 98   |
| 143 | 2014.1.18 | IN   | F   |     | AML M0 | 10   | N       | 95  | 94    | 94    | 96   |
| 144 | 2014.1.18 | IN   | M   |     | AML M1 | 5    | N       | 98  | 98    | 99    | 97   |
| 145 | 2014.1.18 | IN   | M   |     | AML M1 | 5    | N       | 99  | 98    | 98    | 97   |
| 146 | 2014.1.18 | IN   | M   |     | MDS    | 10   | N       | 97  | 95    | 97    | 97   |
| 147 | 2014.1.18 | IN   | M   |     | APL    | 10   | N       | 98  | 97    | 96    | 97   |
| 148 | 2014.1.19 | IN   | M   |     | APL    | 10   | N       | 96  | 97    | 97    | 97   |
| 149 | 2014.1.19 | IN   | M   |     | MDS    | 5    | N       | 97  | 97    | 97    | 98   |
| 150 | 2014.1.19 | IN   | M   |     | MDS    | 5    | N       | 97  | 98    | 96    | 98   |
| 151 | 2014.1.19 | IN   | F   |     | AML M0 | 10   | N       | 98  | 98    | 96    | 99   |
| 152 | 2014.1.2  | IN   | M   |     | MDS    | 10   | N       | 93  | 92    | 93    | 93   |
| 153 | 2014.1.2  | IN   | M   |     | APL    | 10   | N       | 95  | 96    | 97    | 98   |
| 154 | 2014.1.2  | IN   | M   |     | ALL    | 10   | N       | 96  | 98    | 98    | 98   |
| 155 | 2014.1.2  | IN   | M   |     | APL    | 10   | N       | 99  | 99    | 99    | 99   |
| 156 | 2014.1.22 | IN   | F   |     | ALL    | 10   | N       | 99  | 98    | 99    | 99   |
| 157 | 2014.1.22 | IN   | M   |     | AML M1 | 10   | N       | 96  | 96    | 96    | 98   |
| 158 | 2014.1.22 | IN   | F   |     | ALL    | 10   | N       | 99  | 99    | 99    | 99   |
| 159 | 2014.1.22 | IN   | M   |     | ALL    | 10   | N       | 99  | 98    | 96    | 99   |
| 160 | 2014.1.22 | IN   | M   |     | MDS    | 10   | N       | 96  | 96    | 96    | 97   |

| No  | DATE      | WARD | SEX | Age | Diag.  | Unit | Allergy | Pre | after | After | 6hrs |
|-----|-----------|------|-----|-----|--------|------|---------|-----|-------|-------|------|
| 161 | 2014.1.24 | N    | M   |     | NHL    | 10   | N       | 98  | 97    | 97    | 97   |
| 162 | 2014.1.24 | N    | M   |     | AML M0 | 10   | N       |     |       |       |      |
| 163 | 2014.1.24 | N    | F   |     | ALL    | 10   | N       | 98  | 99    | 99    | 97   |
| 164 | 2014.1.24 | N    | M   |     | ALL    | 10   | N       | 96  | 97    | 95    | 96   |
| 165 | 2014.1.24 | N    | F   |     | ALL    | 10   | N       |     |       |       |      |
| 166 | 2014.1.24 | N    | M   |     | APL    | 10   | N       | 99  | 99    | 99    | 99   |
| 167 | 2014.1.24 | N    | M   |     | APL    | 10   | N       | 97  | 96    | 97    | 98   |
| 168 | 2014.1.24 | N    | M   |     | AML M1 | 10   | N       | 96  | 96    | 97    | 97   |
| 169 | 2014.1.26 | N    | F   |     | ALL    | 10   | N       | 98  | 99    | 99    | 99   |
| 170 | 2014.1.26 | N    | F   |     | ALL    | 10   | N       | 99  | 99    | 98    | 99   |
| 171 | 2014.1.26 | N    | M   |     | APL    | 10   | N       | 98  | 99    | 99    | 99   |
| 172 | 2014.1.27 | N    | M   |     | MDS    | 10   | N       | 98  | 96    | 96    | 96   |
| 173 | 2014.1.27 | N    | F   |     | ALL    | 10   | N       | 99  | 99    | 98    | 99   |
| 174 | 2014.1.27 | N    | M   |     | NHL    | 10   | N       | 97  | 96    | 98    | 98   |
| 175 | 2014.1.27 | N    | M   |     | ALL    | 10   | N       | 98  | 97    | 98    | 96   |
| 176 | 2014.1.28 | N    | M   |     | APL    | 10   | N       | 96  | 98    | 98    | 96   |
| 177 | 2014.1.28 | N    | M   |     | MDS    | 10   | N       | 98  | 98    | 97    | 98   |
| 178 | 2014.1.28 | N    | M   |     | MDS    | 10   | N       | 94  | 95    | 94    | 97   |
| 179 | 2014.1.28 | N    | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 99   |
| 180 | 2014.1.29 | N    | M   |     | ALL    | 10   | N       | 96  | 95    | 97    | 99   |
| 181 | 2014.1.29 | N    | M   |     | AML M0 | 10   | N       | 99  | 99    | 99    | 99   |
| 182 | 2014.1.29 | N    | F   |     | ALL    | 10   | N       | 98  | 99    | 98    | 98   |
| 183 | 2014.1.29 | N    | M   |     | NHL    | 10   | N       | 97  | 98    | 96    | 98   |
| 184 | 2014.1.29 | N    | M   |     | APL    | 10   | N       | 98  | 96    | 96    | 98   |
| 185 | 2014.1.30 | N    | M   |     | AML M1 | 10   | N       | 99  | 99    | 99    | 99   |
| 186 | 2014.1.3  | N    | M   |     | AML M0 | 10   | N       | 92  | 91    | 99    | 99   |
| 187 | 2014.1.3  | N    | M   |     | ALL    | 10   | N       | 99  | 99    | 99    | 99   |
| 188 | 2014.1.3  | N    | F   |     | AA     | 10   | N       | 96  | 96    | 95    | 99   |
| 189 | 2014.1.3  | N    | F   |     | ALL    | 10   | N       | 98  | 99    | 99    | 99   |
| 190 | 2014.1.3  | N    | M   |     | MDS    | 10   | N       | 96  | 99    | 99    | 97   |
| 191 | 2014.1.3  | N    | M   |     | APL    | 10   | N       | 94  | 94    | 94    | 95   |
| 192 | 2014.1.3  | N    | F   |     | NHL    | 10   | N       | 99  | 99    | 97    | 97   |
| 193 | 013.11.1  | OUT  | F   |     | ITP    | 20   | N       | 96  | 96    | 97    |      |
| 194 | 013.11.1  | OUT  | F   |     | MDS    | 20   | N       | 97  | 97    | 99    |      |
| 195 | 013.11.1  | OUT  | M   |     | AML    | 10   | N       |     |       |       |      |
| 196 | 013.11.1  | OUT  | M   |     | AA     | 10   | N       | 93  | 93    | 93    |      |
| 197 | 013.11.1  | OUT  | M   |     | AA     | 10   | N       | 99  | 100   | 100   |      |
| 198 | 013.11.1  | OUT  | M   |     | AA     | 10   | N       | 98  | 98    | 99    |      |
| 199 | 013.11.1  | OUT  | M   |     | MDS    | 10   | N       | 97  | 98    | 98    |      |
| 200 | 013.11.1  | OUT  | M   |     | ITP    | 10   | N       |     |       |       |      |
| 201 | 013.11.1  | OUT  | F   |     | MDS    | 5    | N       | 97  | 99    | 99    |      |
| 202 | 013.11.1  | OUT  | F   |     | MDS    | 15   | N       | 99  | 99    | 99    |      |
| 203 | 013.11.1  | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 99    |      |
| 204 | 013.11.1  | OUT  | M   |     | AML    | 10   | N       | 99  | 99    | 99    |      |
| 205 | 013.11.1  | OUT  | F   |     | ITP    | 20   | N       | 96  | 96    | 97    |      |
| 206 | 013.11.2  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 207 | 013.11.2  | OUT  | M   |     | MDS    | 10   | N       | 99  | 99    | 97    |      |
| 208 | 013.11.2  | OUT  | F   |     | AA     | 10   | N       | 99  | 99    | 97    |      |
| 209 | 013.11.2  | OUT  | M   |     | AA     | 10   | N       | 93  | 93    | 93    |      |
| 210 | 013.11.2  | OUT  | F   |     | MDS    | 10   | N       | 99  | 98    | 98    |      |
| 211 | 013.11.2  | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 99    |      |
| 212 | 013.11.2  | OUT  | M   |     | AML M0 | 10   | N       | 98  | 98    | 99    |      |
| 213 | 013.11.2  | OUT  | F   |     | ITP    | 20   | N       | 96  | 96    | 95    |      |
| 214 | 013.11.2  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 215 | 013.11.2  | OUT  | M   |     | AA     | 20   | N       | 100 | 99    | 98    |      |
| 216 | 013.11.2  | OUT  | M   |     | AA     | 10   | N       | 99  | 98    | 99    |      |
| 217 | 013.12.2  | OUT  | F   |     | MDS    | 10   | N       | 97  | 99    | 99    |      |
| 218 | 013.12.2  | OUT  | M   |     | AA     | 10   | N       | 88  | 86    | 94    |      |
| 219 | 013.12.2  | OUT  | M   |     | AML    | 10   | N       | 99  | 99    | 98    |      |
| 220 | 013.12.2  | OUT  | F   |     | ITP    | 20   | N       | 96  | 96    | 96    |      |
| 221 | 013.12.2  | OUT  | F   |     | MDS    | 10   | N       | 99  | 99    | 99    |      |
| 222 | 013.12.2  | OUT  | M   |     | MDS    | 10   | N       | 97  | 97    | 96    |      |
| 223 | 013.12.2  | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 224 | 013.12.2  | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 225 | 013.12.2  | OUT  | F   |     | ITP    | 20   | N       | 97  | 95    | 95    |      |
| 226 | 013.12.2  | OUT  | F   |     | AA     | 10   | N       | 99  | 99    | 98    |      |
| 227 | 013.12.2  | OUT  | M   |     | AA     | 10   | N       | 98  | 98    | 97    |      |
| 228 | 013.12.1  | OUT  | F   |     | ITP    | 10   | N       | 96  | 96    | 96    |      |
| 229 | 013.12.1  | OUT  | F   |     | MDS    | 10   | N       | 99  | 99    | 99    |      |
| 230 | 013.12.1  | OUT  | M   |     | AA     | 10   | N       | 97  | 97    | 98    |      |
| 231 | 013.12.1  | OUT  | M   |     | AML    | 10   | N       | 98  | 98    | 98    |      |
| 232 | 013.12.1  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 97    |      |
| 233 | 013.12.1  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 99    |      |
| 234 | 013.12.1  | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 99    |      |
| 235 | 013.12.1  | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 97    |      |
| 236 | 013.12.1  | OUT  | F   |     | ITP    | 10   | N       | 96  | 94    | 94    |      |
| 237 | 013.12.1  | OUT  | F   |     | AA     | 10   | N       | 99  | 99    | 97    |      |
| 238 | 013.12.1  | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 99    |      |
| 239 | 013.12.1  | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 240 | 013.12.1  | OUT  | F   |     | ITP    | 10   | N       | 97  | 97    | 98    |      |
| 241 | 013.12.1  | OUT  | F   |     | MDS    | 10   | N       | 97  | 97    | 97    |      |
| 242 | 013.12.1  | OUT  | M   |     | AML    | 10   | N       | 98  | 98    | 98    |      |

| No  | DATE      | WARD | SEX | Age | Diag.  | Unit | Allergy | Pre | after | After | 6hrs |
|-----|-----------|------|-----|-----|--------|------|---------|-----|-------|-------|------|
| 243 | 013.12.1  | OUT  | M   |     | MDS    | 10   | N       | 97  | 97    | 96    |      |
| 244 | 013.12.1  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 97    |      |
| 245 | 013.12.2  | OUT  | M   |     | AA     | 10   | N       | 97  | 99    | 98    |      |
| 246 | 013.12.2  | OUT  | M   |     | MDS RA | 10   | N       | 98  | 97    | 97    |      |
| 247 | 013.12.2  | OUT  | F   |     | ITP    | 10   | N       | 98  | 98    | 98    |      |
| 248 | 013.12.2  | OUT  | F   |     | MDS RA | 10   | N       | 98  | 98    | 97    |      |
| 249 | 013.12.2  | OUT  | F   |     | ITP    | 10   | N       | 97  | 97    | 97    |      |
| 250 | 013.12.2  | OUT  | F   |     | MDS RA | 10   | N       | 97  | 97    | 98    |      |
| 251 | 013.12.2  | OUT  | M   |     | AML    | 10   | N       | 98  | 98    | 99    |      |
| 252 | 013.12.2  | OUT  | M   |     | AA     | 10   | N       | 100 | 99    | 99    |      |
| 253 | 013.12.2  | OUT  | M   |     | AA     | 10   | N       | 97  | 97    | 96    |      |
| 254 | 013.12.2  | OUT  | M   |     | MDS    | 10   | N       | 97  | 97    | 99    |      |
| 255 | 013.12.2  | OUT  | F   |     | ITP    | 10   | N       | 97  | 97    | 97    |      |
| 256 | 013.12.2  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 257 | 013.12.2  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 97    |      |
| 258 | 013.12.2  | OUT  | M   |     | AA     | 10   | N       | 98  | 98    | 99    |      |
| 259 | 013.12.2  | OUT  | F   |     | ITP    | 10   | N       | 96  | 96    | 96    |      |
| 260 | 013.12.2  | OUT  | F   |     | MDS RA | 5    | N       | 99  | 99    | 100   |      |
| 261 | 013.12.2  | OUT  | F   |     | MDS RA | 15   | N       | 100 | 100   | 99    |      |
| 262 | 2014.1.4  | OUT  | F   |     | ITP    | 10   | N       | 97  | 97    | 97    |      |
| 263 | 2014.1.4  | OUT  | F   |     | MDS RA | 5    | N       | 98  | 98    | 98    |      |
| 264 | 2014.1.4  | OUT  | F   |     | MDS RA | 5    | N       | 97  | 97    | 97    |      |
| 265 | 2014.1.4  | OUT  | M   |     | AML    | 10   | N       | 98  | 98    | 99    |      |
| 266 | 2014.1.4  | OUT  | F   |     | MDS    | 10   | N       | 100 | 97    | 97    |      |
| 267 | 2014.1.4  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 268 | 2014.1.4  | OUT  | M   |     | AA     | 10   | N       | 97  | 97    | 97    |      |
| 269 | 2014.1.6  | OUT  | M   |     | MDS RA | 5    | N       | 99  | 98    | 98    |      |
| 270 | 2014.1.6  | OUT  | M   |     | MDS RA | 5    | N       | 99  | 98    | 98    |      |
| 271 | 2014.1.6  | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 98    |      |
| 272 | 2014.1.7  | OUT  | F   |     | ITP    | 10   | N       | 95  | 97    | 97    |      |
| 273 | 2014.1.7  | OUT  | F   |     | MDS RA | 10   | N       | 99  | 98    | 98    |      |
| 274 | 2014.1.7  | OUT  | F   |     | AA     | 10   | N       | 99  | 99    | 98    |      |
| 275 | 2014.1.9  | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 99    |      |
| 276 | 2014.1.9  | OUT  | M   |     | MDS    | 10   | N       | 99  | 99    | 98    |      |
| 277 | 2014.1.10 | OUT  | F   |     | ITP    | 10   | N       | 99  | 99    | 99    |      |
| 278 | 2014.1.10 | OUT  | F   |     | MDS RA | 10   | N       | 99  | 99    | 99    |      |
| 279 | 2014.1.14 | OUT  | M   |     | AML    | 10   | N       | 97  | 97    | 98    |      |
| 280 | 2014.1.14 | OUT  | M   |     | AA     | 10   | N       | 98  | 98    | 99    |      |
| 281 | 2014.1.14 | OUT  | F   |     | MDS    | 10   | N       | 98  | 99    | 99    |      |
| 282 | 2014.1.14 | OUT  | F   |     | MDS RA | 10   | N       | 99  | 99    | 99    |      |
| 283 | 2014.1.14 | OUT  | F   |     | ITP    | 10   | N       | 96  | 96    | 96    |      |
| 284 | 2014.1.14 | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 99    |      |
| 285 | 2014.1.14 | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 98    |      |
| 286 | 2014.1.17 | OUT  | M   |     | AA     | 10   | N       | 98  | 96    | 97    |      |
| 287 | 2014.1.17 | OUT  | F   |     | ITP    | 10   | N       | 96  | 96    | 96    |      |
| 288 | 2014.1.17 | OUT  | F   |     | AA     | 10   | N       | 98  | 98    | 99    |      |
| 289 | 2014.1.17 | OUT  | F   |     | MDS RA | 10   | N       | 99  | 99    | 98    |      |
| 290 | 2014.1.2  | OUT  | M   |     | AML    | 10   | N       | 98  | 98    | 99    |      |
| 291 | 2014.1.2  | OUT  | F   |     | MDS RA | 10   | N       | 99  | 99    | 99    |      |
| 292 | 2014.1.2  | OUT  | F   |     | ITP    | 10   | N       | 97  | 97    | 96    |      |
| 293 | 2014.1.2  | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 99    |      |
| 294 | 2014.1.2  | OUT  | F   |     | ITP    | 10   | N       | 98  | 98    | 98    |      |
| 295 | 2014.1.2  | OUT  | M   |     | MDS    | 10   | N       | 98  | 98    | 97    |      |
| 296 | 2014.1.24 | OUT  | M   |     | AA     | 10   | N       | 99  | 99    | 98    |      |
| 297 | 2014.1.24 | OUT  | F   |     | ITP    | 10   | N       | 98  | 98    | 98    |      |
| 298 | 2014.1.24 | OUT  | F   |     | MDS    | 10   | N       | 94  | 94    | 94    |      |
| 299 | 2014.1.24 | OUT  | M   |     | MDS    | 10   | N       | 97  | 98    | 97    |      |
| 300 | 2014.1.24 | OUT  | F   |     | AA     | 10   | N       | 99  | 99    | 96    |      |
| 301 | 2014.1.24 | OUT  | F   |     | MDS RA | 10   | N       | 99  | 99    | 98    |      |
| 302 | 2014.1.24 | OUT  | M   |     |        | 10   | N       | 99  | 98    | 98    |      |
| 303 | 2014.1.24 | OUT  | F   |     | ITP    | 10   | N       | 98  | 98    | 97    |      |
| 304 | 2014.1.24 | OUT  | F   |     | MDS RA | 10   | N       | 99  | 99    | 98    |      |
| 305 | 2014.1.30 | OUT  | F   |     | MDS    | 10   | N       | 98  | 98    | 96    |      |
| 306 | 2014.1.30 | OUT  | F   |     | MDS    | 10   | N       | 94  | 94    | 94    |      |
| 307 | 2014.1.3  | OUT  | F   |     | ITP    | 10   | N       | 96  | 96    | 95    |      |
| 308 | 2014.1.3  | OUT  | F   |     | MDS RA | 10   | N       | 97  | 97    | 100   |      |
| 309 | 2014.1.3  | OUT  | M   |     | AA     | 10   | N       | 98  | 98    | 98    |      |

平均: 97.3 97.28 97.27 97.43

太字: 前値が≤94%

|       |                    |      |
|-------|--------------------|------|
|       | 前値に比し5%以上の低下       |      |
| after | 前値(≥95%)に比し2%以上の低下 | n=13 |
| After | 前値(≥95%)に比し2%以上の低下 | n=24 |
| 6hrs  | 前値(≥95%)に比し2%以上の低下 | n=11 |

前値のあるn=279例中、前値に対し1回のみ、低下条件を満たす例は27(9.7%)

前値のあるn=279例中、前値に対し2回、低下条件を満たす例は9(3.2%)

前値のあるn=279例中、前値に対し3回全て、低下条件を満たす例は1(0.4%)

## MAP入院、外来(東邦大)

| No | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre       | after     | After     | 6hrs      |
|----|------------|------|-----|-----|-----------|------|---------|-----------|-----------|-----------|-----------|
| 1  | 2013.11.13 | IN   | F   |     | ALL       | 2    | N       |           |           |           |           |
| 2  | 2013.11.13 | IN   | M   |     | ALL       | 2    | N       |           |           |           |           |
| 3  | 2013.11.14 | IN   | F   |     | MDS       | 2    | N       |           |           |           |           |
| 4  | 2013.11.14 | IN   | M   |     | CML       | 2    | N       | 96        | 98        | 98        |           |
| 5  | 2013.11.15 | IN   | M   |     | ALL       | 2    | N       | 96        | 96        | 96        |           |
| 6  | 2013.11.15 | IN   | M   |     | AML M0    | 2    | N       | 99        | 98        | 99        |           |
| 7  | 2013.11.16 | IN   | M   |     | MDS R1    | 2    | N       | 99        | 98        | 99        |           |
| 8  | 2013.11.17 | IN   | M   |     | ALL       | 2    | N       | 97        | 96        | <b>94</b> |           |
| 9  | 2013.11.18 | IN   | M   |     | AML M0    | 2    | N       | 95        | 97        |           |           |
| 10 | 2013.11.18 | IN   | M   |     | AML M0    | 2    | N       | 99        | 99        | 99        |           |
| 11 | 2013.11.18 | IN   | F   |     | ALL       | 2    | N       |           |           |           |           |
| 12 | 2013.11.18 | IN   | M   |     | NHL       | 2    | N       |           |           |           |           |
| 13 | 2013.11.19 | IN   | M   |     | CLL       | 2    | N       |           |           |           |           |
| 14 | 2013.11.20 | IN   | M   |     | MDS       | 2    | N       | 99        | 99        | 99        |           |
| 15 | 2013.11.20 | IN   | M   |     | CLL       | 2    | N       |           |           |           |           |
| 16 | 2013.11.20 | IN   | M   |     | CLL       | 2    | N       |           |           |           |           |
| 17 | 2013.11.20 | IN   | M   |     | AML M0    | 2    | N       |           |           |           |           |
| 18 | 2013.11.20 | IN   | M   |     | CML       | 2    | N       |           |           |           |           |
| 19 | 2013.11.22 | IN   | M   |     | AML M0    | 2    | N       | 98        | 98        | 98        |           |
| 20 | 2013.11.22 | IN   | F   |     | ALL       | 2    | N       | 97        | 98        | 97        |           |
| 21 | 2013.11.22 | IN   | M   |     | CLL       | 2    | N       | 97        | 96        | 97        |           |
| 22 | 2013.11.22 | IN   | M   |     | CLL       | 2    | N       | 97        | 96        | 97        |           |
| 23 | 2013.11.22 | IN   | F   |     | MDS       | 2    | N       | 98        | 98        | 97        |           |
| 24 | 2013.11.22 | IN   | F   |     | NHL       | 2    | N       |           |           |           |           |
| 25 | 2013.11.22 | IN   | F   |     | NHL       | 2    | N       |           |           |           |           |
| 26 | 2013.11.22 | IN   | F   |     | MDS       | 2    | N       |           |           |           |           |
| 27 | 2013.11.23 | IN   | F   |     | NHL       | 2    | N       |           |           |           |           |
| 28 | 2013.11.23 | IN   | F   |     | ALL       | 2    | N       |           |           |           |           |
| 29 | 2013.11.24 | IN   | M   |     | AML M0    | 2    | N       | 95        | 95        | 96        |           |
| 30 | 2013.11.24 | IN   | M   |     | AML M0    | 2    | N       | 97        | 98        | 99        |           |
| 31 | 2013.11.24 | IN   | M   |     | CLL       | 2    | N       | 97        | 97        | 98        |           |
| 32 | 2013.11.25 | IN   | M   |     | AML M0    | 2    | N       | 98        | <b>96</b> |           |           |
| 33 | 2013.11.25 | IN   | M   |     | CLL       | 2    | N       | 97        | 97        | 97        |           |
| 34 | 2013.11.25 | IN   | M   |     | CLL       | 2    | N       | 97        | 97        | 97        |           |
| 35 | 2013.11.26 | IN   | M   |     | CLL       | 2    | N       | 98        | 99        | 97        |           |
| 36 | 2013.11.26 | IN   | M   |     | CLL       | 2    | N       | 98        | 99        | 97        |           |
| 37 | 2013.11.27 | IN   | M   |     | AML M0    | 2    | N       | 96        | 95        | 95        | 96        |
| 38 | 2013.11.27 | IN   | M   |     | AML M0    | 2    | N       | 95        | 96        | 98        | 97        |
| 39 | 2013.11.27 | IN   | M   |     | CLL       | 4    | N       | 100       | 99        | <b>98</b> |           |
| 40 | 2013.11.28 | IN   | M   |     | CLL       | 2    | N       | 95        | 95        | 95        | 95        |
| 41 | 2013.11.28 | IN   | M   |     | CLL       | 2    | N       | 95        | 95        | 95        | 95        |
| 42 | 2013.11.28 | IN   | F   |     | MDS       | 2    | N       | 99        | <b>97</b> | 99        | <b>97</b> |
| 43 | 2013.11.29 | IN   | M   |     | AML M0    | 2    | N       | 97        | 97        | 98        | 97        |
| 44 | 2013.11.29 | IN   | M   |     | NHL       | 2    | N       |           |           |           |           |
| 45 | 2013.11.29 | IN   | F   |     | NHL       | 2    | N       |           |           |           |           |
| 46 | 2013.11.30 | IN   | F   |     | MDS       | 2    | N       | 96        | 96        | 98        | 98        |
| 47 | 2013.12.1  | IN   | M   |     | AML M0    | 2    | N       |           |           |           |           |
| 48 | 2013.12.2  | IN   | M   |     | MDS       | 2    | N       | 99        | 98        | 98        | 98        |
| 49 | 2013.12.2  | IN   | F   |     | ALL       | 2    | N       | 97        | 98        | 98        | 96        |
| 50 | 2013.12.2  | IN   | F   |     | ALL       | 2    | N       | 97        | 98        | 98        | 96        |
| 51 | 2013.12.2  | IN   | M   |     | CLL       | 2    | N       | 99        | 98        | <b>95</b> | <b>95</b> |
| 52 | 2013.12.2  | IN   | M   |     | CLL       | 2    | N       | 99        | 98        | <b>95</b> | <b>95</b> |
| 53 | 2013.12.3  | IN   | M   |     | AML M0    | 2    | N       | 97        | <b>95</b> | 98        | 98        |
| 54 | 2013.12.4  | IN   | M   |     | MMBMT     | 2    | N       | <b>94</b> | 97        | 97        | 97        |
| 55 | 2013.12.4  | IN   | M   |     | CLL       | 2    | N       | 97        | 97        | 98        | 98        |

| No  | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre | after | After | 6hrs |
|-----|------------|------|-----|-----|-----------|------|---------|-----|-------|-------|------|
| 56  | 2013.12.4  | IN   | M   |     | CLL       | 2    | N       | 97  | 97    | 98    | 98   |
| 57  | 2013.12.4  | IN   | M   |     | MDS       | 2    | N       |     |       |       |      |
| 58  | 2013.12.5  | IN   | M   |     | ALL       | 2    | N       | 96  | 96    |       |      |
| 59  | 2013.12.6  | IN   | F   |     | AML M0    | 2    | N       | 96  | 95    | 97    | 98   |
| 60  | 2013.12.6  | IN   | F   |     | AML M0    | 2    | N       | 97  | 95    | 97    | 98   |
| 61  | 2013.12.6  | IN   | M   |     | MDS       | 2    | N       | 97  | 95    | 94    |      |
| 62  | 2013.12.6  | IN   | M   |     | MDS       | 2    | N       |     |       | 96    |      |
| 63  | 2013.12.6  | IN   | M   |     | MDS       | 2    | N       |     |       |       |      |
| 64  | 2013.12.6  | IN   | F   |     | AML M0    | 1    | N       | 96  | 95    | 97    | 98   |
| 65  | 2013.12.6  | IN   | F   |     | AML M0    | 1    | N       | 97  | 95    | 97    | 98   |
| 66  | 2013.12.7  | IN   | M   |     | MDS       | 2    | N       | 99  | 95    | 96    | 97   |
| 67  | 2013.12.7  | IN   | M   |     | AML M0    | 2    | N       | 98  | 98    | 98    | 97   |
| 68  | 2013.12.7  | IN   | M   |     | MPN       | 1    | N       | 99  | 95    | 99    | 99   |
| 69  | 2013.12.7  | IN   | M   |     | MPN       | 1    | N       | 99  | 97    | 97    | 99   |
| 70  | 2013.12.7  | IN   | M   |     | MDS       | 2    | N       | 95  | 95    | 97    | 96   |
| 71  | 2013.12.9  | IN   | F   |     | MDS       | 2    | N       | 98  | 97    | 97    | 99   |
| 72  | 2013.12.9  | IN   | M   |     | CLL       | 2    | N       | 97  | 98    | 98    | 98   |
| 73  | 2013.12.9  | IN   | M   |     | MDS       | 2    | N       | 98  | 98    | 98    | 97   |
| 74  | 2013.12.11 | IN   | F   |     | ALL       | 2    | N       | 99  | 99    | 99    | 98   |
| 75  | 2013.12.12 | IN   | M   |     | ALL       | 2    | N       | 96  | 99    | 97    | 95   |
| 76  | 2013.12.12 | IN   | M   |     | CLL       | 2    | N       | 98  | 99    | 99    | 99   |
| 77  | 2013.12.12 | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 96    | 99   |
| 78  | 2013.12.12 | IN   | M   |     | adiction  | 2    | N       | 100 |       | 100   | 100  |
| 79  | 2013.12.12 | IN   | M   |     | adiction  | 2    | N       | 99  | 98    | 100   | 100  |
| 80  | 2013.12.13 | IN   | F   |     | AML M0    | 1    | N       | 97  | 97    | 98    | 95   |
| 81  | 2013.12.13 | IN   | F   |     | AML M0    | 1    | N       | 98  | 97    | 96    | 96   |
| 82  | 2013.12.14 | IN   | M   |     | CLL       | 2    | N       |     |       |       |      |
| 83  | 2013.12.16 | IN   | F   |     | AML M0    | 2    | N       | 98  | 99    | 99    | 99   |
| 84  | 2013.12.16 | IN   | F   |     | MMBMT     | 2    | N       | 97  | 98    | 99    | 99   |
| 85  | 2013.12.17 | IN   | M   |     | CLL       | 2    | N       | 98  | 96    | 99    | 99   |
| 86  | 2013.12.17 | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 99    | 99   |
| 87  | 2013.12.17 | IN   | F   |     | AML M0    | 2    | N       | 97  | 99    | 97    | 98   |
| 88  | 2013.12.17 | IN   | M   |     | MDS       | 2    | N       |     |       |       |      |
| 89  | 2013.12.19 | IN   | M   |     | APL       | 2    | N       | 97  | 95    | 99    | 97   |
| 90  | 2013.12.19 | IN   | M   |     | MDS       | 2    | N       | 96  | 96    | 98    | 98   |
| 91  | 2013.12.20 | IN   | M   |     | NHL       | 2    | N       | 97  | 98    | 99    | 96   |
| 92  | 2013.12.21 | IN   | M   |     | CLL       | 2    | N       | 97  | 97    | 97    | 97   |
| 93  | 2013.12.21 | IN   | M   |     | CLL       | 2    | N       | 96  | 97    | 96    | 99   |
| 94  | 2013.12.23 | IN   | F   |     | MMBMT     | 2    | N       | 99  | 97    | 96    | 98   |
| 95  | 2013.12.24 | IN   | F   |     | AML M0    | 1    | N       | 99  | 98    | 98    | 98   |
| 96  | 2013.12.24 | IN   | F   |     | AML M0    | 1    | N       | 98  | 99    | 99    | 98   |
| 97  | 2013.12.25 | IN   | F   |     | MDS       | 2    | N       | 97  | 96    | 98    | 99   |
| 98  | 2013.12.25 | IN   | F   |     | MDS       | 2    | N       | 97  | 96    | 98    | 99   |
| 99  | 2013.12.25 | IN   | M   |     | MDS       | 2    | N       | 97  | 96    | 96    |      |
| 100 | 2013.12.25 | IN   | F   |     | AA        | 2    | N       | 96  | 96    | 96    | 98   |
| 101 | 2013.12.26 | IN   | M   |     | MDS       | 1    | N       | 97  | 99    | 99    | 98   |
| 102 | 2013.12.26 | IN   | M   |     | MDS       | 1    | N       | 99  | 99    | 98    | 97   |
| 103 | 2013.12.26 | IN   | F   |     | AA        | 1    | N       | 96  | 96    | 96    | 98   |
| 104 | 2013.12.26 | IN   | F   |     | AA        | 1    | N       | 98  | 98    | 97    | 98   |
| 105 | 2013.12.26 | IN   | F   |     | MDS       | 2    | N       | 95  | 95    | 98    | 99   |
| 106 | 2013.12.26 | IN   | M   |     | CLL       | 2    | N       | 97  | 95    | 98    | 98   |
| 107 | 2013.12.26 | IN   | M   |     | CLL       | 2    | N       | 97  | 95    | 98    | 98   |
| 108 | 2013.12.26 | IN   | M   |     | ALL       | 2    | N       | 98  | 98    | 97    | 97   |
| 109 | 2013.12.27 | IN   | M   |     | AML M0    | 2    | N       | 99  | 99    | 99    | 97   |
| 110 | 2013.12.27 | IN   | F   |     | AA        | 2    | N       | 95  | 95    | 95    | 96   |
| 111 | 2013.12.27 | IN   | F   |     | AA        | 2    | N       | 95  | 95    | 97    | 96   |
| 112 | 2013.12.27 | IN   | F   |     | AML M0    | 2    | N       | 98  | 98    | 99    | 99   |
| 113 | 2013.12.27 | IN   | F   |     | AML M0    | 2    | N       | 99  | 98    | 98    | 98   |

| No  | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre | after | After | 6hrs |
|-----|------------|------|-----|-----|-----------|------|---------|-----|-------|-------|------|
| 114 | 2013.12.29 | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 99    | 97   |
| 115 | 2013.12.29 | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 97    | 97   |
| 116 | 2013.12.29 | IN   | M   |     | AML M0    | 2    | N       | 98  | 99    | 98    | 97   |
| 117 | 2013.12.29 | IN   | M   |     | AML M5    | 2    | N       | 99  | 98    | 97    | 98   |
| 118 | 2013.12.29 | IN   | M   |     | AML M5    | 2    | N       | 95  | 95    | 91    | 96   |
| 119 | 2014.1.2   | IN   | M   |     | AML M0    | 2    | N       | 99  | 99    | 99    | 99   |
| 120 | 2014.1.4   | IN   | F   |     | AML M0    | 2    | N       | 98  | 99    | 97    | 97   |
| 121 | 2014.1.6   | IN   | M   |     | MDS       | 2    | N       | 98  | 99    | 97    | 96   |
| 122 | 2014.1.6   | IN   | M   |     | MDS       | 2    | N       | 99  | 98    | 98    | 98   |
| 123 | 2014.1.6   | IN   | M   |     | PRA       | 2    | N       | 95  | 96    | 98    | 98   |
| 124 | 2014.1.7   | IN   | M   |     | AML M0    | 2    | N       | 99  | 99    | 98    | 99   |
| 125 | 2014.1.7   | IN   | M   |     | APL       | 2    | N       | 98  | 97    | 98    | 97   |
| 126 | 2014.1.7   | IN   | M   |     | MDS       | 2    | N       | 99  | 98    | 98    | 98   |
| 127 | 2014.1.8   | IN   | M   |     | APL       | 2    | N       | 99  | 99    | 99    | 98   |
| 128 | 2014.1.9   | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 99    | 99   |
| 129 | 2014.1.9   | IN   | M   |     | APL       | 2    | N       | 99  | 99    | 98    | 95   |
| 130 | 2014.1.10  | IN   | M   |     | AML M0    | 2    | N       | 99  | 99    | 99    | 99   |
| 131 | 2014.1.11  | IN   | M   |     | APL       | 1    | N       | 95  | 98    | 99    | 97   |
| 132 | 2014.1.11  | IN   | M   |     | APL       | 1    | N       | 99  | 98    | 98    | 96   |
| 133 | 2014.1.11  | IN   | M   |     | ALL       | 2    | N       | 99  | 99    | 96    | 97   |
| 134 | 2014.1.11  | IN   | M   |     | MDS       | 2    | N       | 97  | 96    | 97    | 98   |
| 135 | 2014.1.12  | IN   | M   |     | AML M0    | 2    | N       | 99  | 99    | 99    |      |
| 136 | 2014.1.13  | IN   | F   |     | AML M0    | 1    | N       | 97  | 98    | 98    | 96   |
| 137 | 2014.1.13  | IN   | F   |     | AML M0    | 1    | N       | 98  | 96    | 97    | 96   |
| 138 | 2014.1.14  | IN   | M   |     | AML M0    | 2    | N       | 97  | 98    | 98    | 99   |
| 139 | 2014.1.14  | IN   | F   |     | ALL       | 2    | N       | 98  | 98    | 98    | 98   |
| 140 | 2014.1.15  | IN   | F   |     | AML M0    | 2    | N       | 97  | 99    | 97    | 96   |
| 141 | 2014.1.15  | IN   | M   |     | ALL       | 2    | N       | 97  | 97    | 97    | 98   |
| 142 | 2014.1.16  | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 99    | 97   |
| 143 | 2014.1.16  | IN   | M   |     | CLL       | 2    | N       | 99  | 99    | 97    | 99   |
| 144 | 2014.1.17  | IN   | F   |     | NHL       | 1    | N       | 99  | 98    | 97    | 99   |
| 145 | 2014.1.17  | IN   | F   |     | NHL       | 1    | N       | 97  | 99    | 99    | 99   |
| 146 | 2014.1.18  | IN   | F   |     | ALL       | 2    | N       | 99  | 99    | 99    | 99   |
| 147 | 2014.1.18  | IN   | M   |     | NHL       | 2    | N       | 96  | 96    | 95    | 96   |
| 148 | 2014.1.19  | IN   | M   |     | AML M1    | 2    | N       | 99  | 99    | 99    | 98   |
| 149 | 2014.1.20  | IN   | M   |     | MDS       | 2    | N       | 98  | 98    | 97    | 97   |
| 150 | 2014.1.21  | IN   | M   |     | ALL       | 2    | N       | 99  | 99    | 97    | 98   |
| 151 | 2014.1.21  | IN   | M   |     | AML M1    | 2    | N       | 98  | 98    | 99    | 99   |
| 152 | 2014.1.21  | IN   | M   |     | MDS       | 2    | N       | 96  | 98    | 96    | 93   |
| 153 | 2014.1.21  | IN   | F   |     | NHL       | 2    | N       | 97  | 97    | 97    | 97   |
| 154 | 2014.1.22  | IN   | F   |     | ALL       | 2    | N       | 99  | 99    | 99    | 99   |
| 155 | 2014.1.23  | IN   | M   |     | NHL       | 2    | N       | 98  | 97    | 98    | 99   |
| 156 | 2014.1.23  | IN   | M   |     | NHL       | 2    | N       | 98  | 98    | 98    | 99   |
| 157 | 2014.1.23  | IN   | F   |     | ALL       | 2    | N       | 99  | 99    | 99    | 99   |
| 158 | 2014.1.24  | IN   | M   |     | AML M0    | 2    | N       |     |       |       |      |
| 159 | 2014.1.24  | IN   | M   |     | AML M1    | 2    | N       | 98  | 98    | 99    | 98   |
| 160 | 2014.1.25  | IN   | F   |     | NHL       | 2    | N       | 95  | 97    | 98    | 96   |
| 161 | 2014.1.25  | IN   | M   |     | CLL       | 2    | N       | 96  | 99    | 99    | 98   |
| 162 | 2014.1.26  | IN   | F   |     | ALL       | 2    | N       | 99  | 99    | 98    | 99   |
| 163 | 2014.1.27  | IN   | M   |     | CLL       | 2    | N       | 97  | 96    | 98    | 97   |
| 164 | 2014.1.28  | IN   | M   |     | MDS       | 4    | N       | 98  | 96    | 96    | 96   |
| 165 | 2014.1.28  | IN   | M   |     | MDS       | 2    | N       | 96  | 95    | 95    | 96   |
| 166 | 2014.1.29  | IN   | M   |     | ALL       | 2    | N       | 96  | 96    | 97    | 97   |
| 167 | 2014.1.30  | IN   | F   |     | ALL       | 1    | N       | 97  | 98    | 99    | 99   |
| 168 | 2014.1.30  | IN   | F   |     | ALL       | 1    | N       | 99  | 99    | 99    | 99   |
| 169 | 2014.1.30  | IN   | M   |     | NHL       | 2    | N       | 97  | 98    | 96    | 98   |
| 170 | 2014.1.30  | IN   | M   |     | APL       | 2    | N       | 99  | 99    | 99    | 99   |
| 171 | 2014.1.31  | IN   | M   |     | AML M0    | 2    | N       | 98  | 99    | 98    | 99   |

| No  | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre       | after     | After     | 6hrs |
|-----|------------|------|-----|-----|-----------|------|---------|-----------|-----------|-----------|------|
| 172 | 2014.1.31  | IN   | M   |     | AML M1    | 2    | N       |           |           | 99        | 99   |
| 173 | 2014.1.31  | IN   | F   |     | AA        | 2    | N       | <b>92</b> | 95        | 96        | 99   |
| 174 | 2013.11.25 | OUT  | M   |     | LK        | 2    | N       |           |           |           |      |
| 175 | 2013.11.13 | OUT  | M   |     | MDS       | 2    | N       | 96        | 98        | 98        |      |
| 176 | 2013.11.13 | OUT  | F   |     | MDS       | 2    | N       | 95        | 97        | 96        |      |
| 177 | 2013.11.13 | OUT  | M   |     | MDS       | 2    | N       | 97        | 98        | 99        |      |
| 178 | 2013.11.14 | OUT  | M   |     | AA        | 2    | N       | <b>93</b> | 95        | 93        |      |
| 179 | 2013.11.14 | OUT  | M   |     | AA        | 4    | N       | 99        | 98        | 99        |      |
| 180 | 2013.11.14 | OUT  | M   |     | AA        | 2    | N       | 98        | 98        | 99        |      |
| 181 | 2013.11.14 | OUT  | M   |     | NHL       | 2    | N       | 96        | 98        | 98        |      |
| 182 | 2013.11.14 | OUT  | M   |     | MDS       | 2    | N       | 97        | 97        | 96        |      |
| 183 | 2013.11.14 | OUT  | F   |     | MDS       | 2    | N       | 100       | 100       | 99        |      |
| 184 | 2013.11.14 | OUT  | M   |     | MDS       | 1    | N       | 99        | 98        | 98        |      |
| 185 | 2013.11.14 | OUT  | M   |     | MDS       | 1    | N       | 98        | 98        | 97        |      |
| 186 | 2013.11.15 | OUT  | F   |     | AA        | 2    | N       | 97        | 98        | 97        |      |
| 187 | 2013.11.18 | OUT  | M   |     | ET        | 2    | N       | 99        | 100       | 98        |      |
| 188 | 2013.11.18 | OUT  | M   |     | ET        | 2    | N       | 99        | 98        | 98        |      |
| 189 | 2013.11.19 | OUT  | F   |     | AA        | 2    | N       | 99        | 98        | 99        |      |
| 190 | 2013.11.19 | OUT  | M   |     | AML       | 2    | N       | 99        | 98        | 98        |      |
| 191 | 2013.11.19 | OUT  | M   |     | AA        | 1    | N       | 98        | 99        | 98        |      |
| 192 | 2013.11.19 | OUT  | M   |     | AA        | 1    | N       | 98        | 99        | 99        |      |
| 193 | 2013.11.19 | OUT  | M   |     | NHL       | 2    | N       | 99        | 99        | <b>97</b> |      |
| 194 | 2013.11.20 | OUT  | F   |     | MDS       | 1    | N       | 97        | 96        | <b>95</b> |      |
| 195 | 2013.11.20 | OUT  | F   |     | MDS       | 1    | N       | 95        | 95        | 97        |      |
| 196 | 2013.11.20 | OUT  | F   |     | MDS       | 2    | N       | 97        | <b>95</b> | <b>95</b> |      |
| 197 | 2013.11.21 | OUT  | M   |     | MDS       | 2    | N       | 99        | 98        | 99        |      |
| 198 | 2013.11.21 | OUT  | M   |     | MDS       | 2    | N       | 99        | 98        | <b>96</b> |      |
| 199 | 2013.11.21 | OUT  | M   |     | MDS R2    | 2    | N       | 96        | 97        | 98        |      |
| 200 | 2013.11.21 | OUT  | F   |     | MDS       | 2    | N       | 98        | 97        | 97        |      |
| 201 | 2013.11.21 | OUT  | F   |     | MDS       | 2    | N       | 97        | 97        | 96        |      |
| 202 | 2013.11.21 | OUT  | M   |     | MDS       | 2    | N       | 97        | 97        | 98        |      |
| 203 | 2013.11.21 | OUT  | M   |     | MDS       | 2    | N       | 97        | 97        | 98        |      |
| 204 | 2013.11.22 | OUT  | M   |     | MDS       | 2    | N       | 98        | 97        | 99        |      |
| 205 | 2013.11.22 | OUT  | F   |     | AA        | 2    | N       | 99        | 99        | 99        |      |
| 206 | 2013.11.22 | OUT  | M   |     | AA        | 1    | N       | <b>92</b> | 94        | 93        |      |
| 207 | 2013.11.22 | OUT  | M   |     | AA        | 1    | N       | <b>93</b> | 93        | 93        |      |
| 208 | 2013.11.25 | OUT  | F   |     | MDS       | 2    | N       | 98        | 98        | 98        |      |
| 209 | 2013.11.25 | OUT  | F   |     | MDS       | 2    | N       | 98        | 98        | 98        |      |
| 210 | 2013.11.25 | OUT  | M   |     | CML       | 1    | N       | 96        | 95        | 95        |      |
| 211 | 2013.11.25 | OUT  | M   |     | CML       | 1    | N       | 95        | 95        | 96        |      |
| 212 | 2013.11.26 | OUT  | M   |     | AML       | 2    | N       | 97        | 98        | 98        |      |
| 213 | 2013.11.26 | OUT  | M   |     | AA        | 2    | N       | 97        | 98        | 98        |      |
| 214 | 2013.11.27 | OUT  | M   |     | MDS       | 1    | N       | 98        | 98        | 98        |      |
| 215 | 2013.11.27 | OUT  | M   |     | MDS       | 1    | N       | 98        | 98        | 99        |      |
| 216 | 2013.11.27 | OUT  | F   |     | MDS       | 2    | N       | 99        | 98        | <b>96</b> |      |
| 217 | 2013.11.28 | OUT  | M   |     | AA        | 2    | N       | 100       | 99        | <b>98</b> |      |
| 218 | 2013.11.28 | OUT  | M   |     | AA        | 2    | N       | 97        | 99        | 98        |      |
| 219 | 2013.11.28 | OUT  | M   |     | MDS       | 2    | N       | 96        | 97        | 97        |      |
| 220 | 2013.11.29 | OUT  | M   |     | AA        | 2    | N       | 98        | 99        | 99        |      |
| 221 | 2013.11.29 | OUT  | M   |     | MDS       | 1    | N       | 98        | 97        | 98        |      |
| 222 | 2013.11.29 | OUT  | M   |     | MDS       | 1    | N       | 98        | 98        | 98        |      |
| 223 | 2013.11.30 | OUT  | M   |     | AML       | 2    | N       | 98        | 98        | 99        |      |
| 224 | 2013.11.30 | OUT  | M   |     | AML       | 2    | N       | 99        | 99        | 98        |      |
| 225 | 2013.12.2  | OUT  | M   |     | MDS       | 2    | N       | 97        | 99        | 99        |      |
| 226 | 2013.12.2  | OUT  | M   |     | CML       | 2    | N       | <b>94</b> | 95        | 96        |      |
| 227 | 2013.12.2  | OUT  | M   |     | AA        | 1    | N       | <b>88</b> | 87        | 88        |      |
| 228 | 2013.12.2  | OUT  | M   |     | AA        | 1    | N       | <b>86</b> | 94        | 94        |      |
| 229 | 2013.12.2  | OUT  | M   |     | ET        | 2    | N       | 98        | 99        | 100       |      |

| No  | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre | after | After | 6hrs |
|-----|------------|------|-----|-----|-----------|------|---------|-----|-------|-------|------|
| 230 | 2013.12.2  | OUT  | M   |     | ET        | 2    | N       | 100 | 98    | 97    |      |
| 231 | 2013.12.3  | OUT  | F   |     | AA        | 2    | N       | 99  | 99    | 98    |      |
| 232 | 2013.12.3  | OUT  | M   |     | AML       | 1    | N       | 99  | 99    | 99    |      |
| 233 | 2013.12.3  | OUT  | M   |     | AML       | 1    | N       | 99  | 99    | 99    |      |
| 234 | 2013.12.4  | OUT  | F   |     | MDS       | 2    | N       | 99  | 97    | 96    |      |
| 235 | 2013.12.4  | OUT  | F   |     | MDS       | 2    | N       | 96  | 96    | 96    |      |
| 236 | 2013.12.4  | OUT  | M   |     | MDS R2    | 2    | N       | 97  | 97    | 97    |      |
| 237 | 2013.12.4  | OUT  | M   |     | MDS       | 2    | N       | 99  | 98    | 98    |      |
| 238 | 2013.12.4  | OUT  | M   |     | MDS       | 2    | N       | 96  | 97    | 96    |      |
| 239 | 2013.12.5  | OUT  | M   |     | NHL       | 2    | N       | 97  | 97    | 99    |      |
| 240 | 2013.12.5  | OUT  | F   |     | MDS       | 1    | N       | 98  | 99    | 98    |      |
| 241 | 2013.12.5  | OUT  | F   |     | MDS       | 1    | N       | 98  | 98    | 98    |      |
| 242 | 2013.12.5  | OUT  | F   |     | MDS       | 2    | N       | 98  | 98    | 98    |      |
| 243 | 2013.12.6  | OUT  | F   |     | AA        | 2    | N       | 95  | 95    | 99    |      |
| 244 | 2013.12.9  | OUT  | M   |     | AA        | 2    | N       | 98  | 98    | 98    |      |
| 245 | 2013.12.9  | OUT  | M   |     | CML       | 2    | N       | 96  | 96    | 98    |      |
| 246 | 2013.12.9  | OUT  | M   |     | MDS       | 2    | N       |     |       |       |      |
| 247 | 2013.12.10 | OUT  | M   |     | AA        | 2    | N       | 97  | 97    | 98    |      |
| 248 | 2013.12.10 | OUT  | M   |     | AML       | 2    | N       | 98  | 98    | 98    |      |
| 249 | 2013.12.11 | OUT  | F   |     | MDS       | 1    | N       | 95  | 95    | 96    |      |
| 250 | 2013.12.11 | OUT  | F   |     | MDS       | 1    | N       | 96  | 96    | 96    |      |
| 251 | 2013.12.11 | OUT  | M   |     | MDS R2    | 1    | N       | 97  | 97    | 97    |      |
| 252 | 2013.12.11 | OUT  | M   |     | MDS R2    | 1    | N       | 98  | 98    | 98    |      |
| 253 | 2013.12.11 | OUT  | M   |     | MDS       | 1    | N       | 97  | 97    | 98    |      |
| 254 | 2013.12.11 | OUT  | M   |     | MDS       | 1    | N       | 98  | 98    | 97    |      |
| 255 | 2013.12.11 | OUT  | F   |     | ET        | 2    | N       | 98  | 98    | 99    |      |
| 256 | 2013.12.11 | OUT  | M   |     | MDS       | 2    | N       | 96  | 97    | 99    |      |
| 257 | 2013.12.11 | OUT  | M   |     | MDS       | 2    | N       | 99  | 97    | 98    |      |
| 258 | 2013.12.12 | OUT  | M   |     | MDS       | 2    | N       | 99  | 98    | 98    |      |
| 259 | 2013.12.12 | OUT  | M   |     | AA        | 2    | N       | 99  | 99    | 98    |      |
| 260 | 2013.12.12 | OUT  | M   |     | AA        | 2    | N       | 98  | 99    | 99    |      |
| 261 | 2013.12.12 | OUT  | F   |     | AA        | 2    | N       |     |       |       |      |
| 262 | 2013.12.12 | OUT  | F   |     | MDS       | 2    | N       | 98  | 98    | 97    |      |
| 263 | 2013.12.12 | OUT  | M   |     | NHL       | 2    | N       | 99  | 97    | 96    |      |
| 264 | 2013.12.12 | OUT  | M   |     | AA        | 2    | N       | 99  | 99    | 98    |      |
| 265 | 2013.12.13 | OUT  | M   |     | MPN       | 2    | N       | 96  | 98    | 97    |      |
| 266 | 2013.12.13 | OUT  | F   |     | AA        | 1    | N       | 98  | 98    | 97    |      |
| 267 | 2013.12.13 | OUT  | F   |     | AA        | 1    | N       | 97  | 98    | 99    |      |
| 268 | 2013.12.16 | OUT  | M   |     | ET        | 2    | N       | 99  | 99    | 99    |      |
| 269 | 2013.12.16 | OUT  | M   |     | ET        | 1    | N       | 99  | 99    | 98    |      |
| 270 | 2013.12.16 | OUT  | M   |     | ET        | 1    | N       | 98  | 98    | 98    |      |
| 271 | 2013.12.16 | OUT  | M   |     | AA        | 2    | N       | 99  | 99    | 99    |      |
| 272 | 2013.12.16 | OUT  | M   |     | MDS       | 2    | N       | 98  | 99    | 98    |      |
| 273 | 2013.12.16 | OUT  | F   |     | MDS       | 2    | N       | 99  | 98    | 98    |      |
| 274 | 2013.12.16 | OUT  | F   |     | MDS       | 2    | N       | 98  | 98    | 98    |      |
| 275 | 2013.12.16 | OUT  | M   |     | CML       | 2    | N       | 96  | 97    | 97    |      |
| 276 | 2013.12.17 | OUT  | F   |     | MDS RA    | 2    | N       | 97  | 94    | 95    |      |
| 277 | 2013.12.17 | OUT  | F   |     | AA        | 2    | N       | 97  | 99    | 99    |      |
| 278 | 2013.12.17 | OUT  | M   |     | AML       | 1    | N       | 95  | 98    | 98    |      |
| 279 | 2013.12.17 | OUT  | M   |     | AML       | 1    | N       | 98  | 97    | 98    |      |
| 280 | 2013.12.18 | OUT  | M   |     | MDS R2    | 2    | N       | 99  | 97    | 98    |      |
| 281 | 2013.12.18 | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 282 | 2013.12.19 | OUT  | M   |     | MDS       | 2    | N       | 96  | 96    | 98    |      |
| 283 | 2013.12.20 | OUT  | M   |     | MDS RA    | 2    | N       | 98  | 98    | 97    |      |
| 284 | 2013.12.20 | OUT  | M   |     | MDS RA    | 2    | N       | 98  | 98    | 98    |      |
| 285 | 2013.12.20 | OUT  | M   |     | AA        | 2    | N       | 97  | 99    | 99    |      |
| 286 | 2013.12.24 | OUT  | F   |     | AA        | 2    | N       | 97  | 97    | 98    |      |
| 287 | 2013.12.24 | OUT  | M   |     | AML       | 2    | N       | 97  | 98    | 98    |      |



| No  | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre | after | After | 6hrs |
|-----|------------|------|-----|-----|-----------|------|---------|-----|-------|-------|------|
| 288 | 2013.12.24 | OUT  | M   |     | AA        | 2    | N       | 98  | 98    | 99    |      |
| 289 | 2013.12.24 | OUT  | M   |     | AA        | 2    | N       | 99  | 98    | 97    |      |
| 290 | 2013.12.25 | OUT  | F   |     | MDS       | 2    | N       | 97  | 97    | 96    |      |
| 291 | 2013.12.25 | OUT  | M   |     | MDS       | 2    | N       | 95  | 97    | 98    |      |
| 292 | 2013.12.25 | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 293 | 2013.12.25 | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 294 | 2013.12.26 | OUT  | F   |     | MDS       | 2    | N       | 99  | 100   | 99    |      |
| 295 | 2013.12.26 | OUT  | M   |     | NHL       | 2    | N       | 97  | 99    | 96    |      |
| 296 | 2013.12.26 | OUT  | F   |     | MDS       | 2    | N       | 98  | 95    | 98    |      |
| 297 | 2013.12.26 | OUT  | M   |     | AA        | 2    | N       | 100 | 100   | 98    |      |
| 298 | 2013.12.26 | OUT  | M   |     | AA        | 2    | N       | 98  | 99    | 100   |      |
| 299 | 2013.12.26 | OUT  | M   |     | AA        | 2    | N       | 99  | 98    | 97    |      |
| 300 | 2013.12.26 | OUT  | M   |     | MDS       | 2    | N       | 97  | 98    | 97    |      |
| 301 | 2013.12.26 | OUT  | M   |     | MDS       | 2    | N       | 97  | 98    | 96    |      |
| 302 | 2013.12.26 | OUT  | M   |     | MDS       | 2    | N       | 97  | 96    | 98    |      |
| 303 | 2013.12.26 | OUT  | M   |     | AA        | 2    | N       | 99  | 98    | 98    |      |
| 304 | 2013.12.26 | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 305 | 2013.12.27 | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 306 | 2013.12.27 | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 307 | 2013.12.27 | OUT  | F   |     | MDS       | 2    | N       | 99  | 100   | 99    |      |
| 308 | 2013.12.27 | OUT  | M   |     | MDS       | 2    | N       | 97  | 98    | 98    |      |
| 309 | 2013.12.27 | OUT  | M   |     | MDS RA    | 2    | N       | 96  | 97    | 96    |      |
| 310 | 2013.12.27 | OUT  | M   |     | AA        | 2    | N       | 98  | 98    | 98    |      |
| 311 | 2013.12.28 | OUT  | M   |     | CML       | 2    | N       | 97  | 96    | 97    |      |
| 312 | 2013.12.28 | OUT  | F   |     | AA        | 2    | N       | 99  | 97    | 97    |      |
| 313 | 2013.12.28 | OUT  | F   |     | MDS       | 2    | N       | 98  | 97    | 97    |      |
| 314 | 2014.1.4   | OUT  | M   |     | AML       | 2    | N       | 97  | 97    | 97    |      |
| 315 | 2014.1.4   | OUT  | F   |     | MDS       | 2    | N       | 98  | 98    | 98    |      |
| 316 | 2014.1.4   | OUT  | F   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 317 | 2014.1.4   | OUT  | M   |     | MDS       | 2    | N       | 98  | 98    | 98    |      |
| 318 | 2014.1.4   | OUT  | M   |     | MDS       | 2    | N       | 97  | 100   | 100   |      |
| 319 | 2014.1.4   | OUT  | M   |     | AA        | 2    | N       | 92  | 99    | 97    |      |
| 320 | 2014.1.4   | OUT  | M   |     | CML       | 2    | N       | 97  | 97    | 97    |      |
| 321 | 2014.1.6   | OUT  | M   |     | ET        | 2    | N       | 98  | 100   | 100   |      |
| 322 | 2014.1.6   | OUT  | M   |     | ET        | 2    | N       | 100 | 98    | 98    |      |
| 323 | 2014.1.6   | OUT  | M   |     | MDS RA    | 2    | N       | 97  | 99    | 99    |      |
| 324 | 2014.1.6   | OUT  | M   |     | AA        | 2    | N       | 99  | 97    | 99    |      |
| 325 | 2014.1.7   | OUT  | F   |     | AA        | 2    | N       | 98  | 97    | 98    |      |
| 326 | 2014.1.7   | OUT  | M   |     | MDS       | 2    | N       | 97  | 96    | 96    |      |
| 327 | 2014.1.8   | OUT  | M   |     | MDS       | 2    | N       | 99  | 99    | 99    |      |
| 328 | 2014.1.8   | OUT  | F   |     | MDS       | 2    | N       | 98  | 97    | 97    |      |
| 329 | 2014.1.8   | OUT  | F   |     | MDS       | 2    | N       | 97  | 97    | 96    |      |
| 330 | 2014.1.8   | OUT  | M   |     | MDS       | 2    | N       | 98  | 97    | 97    |      |
| 331 | 2014.1.8   | OUT  | M   |     | MDS R2    | 2    | N       | 97  | 98    | 97    |      |
| 332 | 2014.1.8   | OUT  | M   |     | MDS R2    | 2    | N       | 97  | 96    | 97    |      |
| 333 | 2014.1.9   | OUT  | M   |     | AA        | 2    | N       | 98  | 99    | 98    |      |
| 334 | 2014.1.9   | OUT  | M   |     | AA        | 2    | N       | 98  | 98    | 99    |      |
| 335 | 2014.1.9   | OUT  | M   |     | MDS       | 2    | N       | 96  | 97    | 99    |      |
| 336 | 2014.1.9   | OUT  | M   |     | MPN       | 2    | N       | 98  | 95    | 95    |      |
| 337 | 2014.1.10  | OUT  | M   |     | MDS RA    | 2    | N       | 99  | 99    | 98    |      |
| 338 | 2014.1.10  | OUT  | M   |     | AA        | 1    | N       | 97  | 97    | 98    |      |
| 339 | 2014.1.10  | OUT  | M   |     | AA        | 1    | N       | 98  | 98    | 98    |      |
| 340 | 2014.1.10  | OUT  | F   |     | MDS RA    | 2    | N       | 97  | 98    | 97    |      |
| 341 | 2014.1.10  | OUT  | M   |     | CML       | 2    | N       | 98  | 98    | 98    |      |
| 342 | 2014.1.14  | OUT  | M   |     | MDS       | 2    | N       | 97  | 97    | 97    |      |
| 343 | 2014.1.14  | OUT  | M   |     | AML       | 2    | N       | 99  | 98    | 97    |      |
| 344 | 2014.1.14  | OUT  | M   |     | AA        | 2    | N       | 99  | 96    | 97    |      |
| 345 | 2014.1.14  | OUT  | F   |     | MDS RA    | 2    | N       | 96  | 96    | 96    |      |

| No  | DATE      | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre | after | After | 6hrs |      |
|-----|-----------|------|-----|-----|-----------|------|---------|-----|-------|-------|------|------|
| 346 | 2014.1.14 | OUT  | F   |     | MDS       | 10   | N       | 98  | 98    | 97    |      |      |
| 347 | 2014.1.14 | OUT  | F   |     | AA        | 2    | N       | 97  | 98    | 98    |      |      |
| 348 | 2014.1.15 | OUT  | M   |     | MDS       | 2    | N       | 98  | 99    | 98    |      |      |
| 349 | 2014.1.15 | OUT  | M   |     | MDS       | 2    | N       | 98  | 98    | 97    |      |      |
| 350 | 2014.1.15 | OUT  | F   |     | MDS       | 2    | N       | 98  | 96    | 96    |      |      |
| 351 | 2014.1.15 | OUT  | M   |     | MDS       | 2    | N       | 98  | 98    | 99    |      |      |
| 352 | 2014.1.16 | OUT  | M   |     | NHL       | 2    | N       | 97  | 97    | 99    |      |      |
| 353 | 2014.1.16 | OUT  | F   |     | MDS       | 2    | N       | 97  | 97    | 99    |      |      |
| 354 | 2014.1.16 | OUT  | F   |     | MDS       | 2    | N       | 98  | 97    | 98    |      |      |
| 355 | 2014.1.17 | OUT  | M   |     | CML       | 2    | N       | 95  | 96    | 97    |      |      |
| 356 | 2014.1.17 | OUT  | M   |     | MDS       | 2    | N       | 97  | 98    | 98    |      |      |
| 357 | 2014.1.17 | OUT  | F   |     | MDA       | 2    | N       | 99  | 98    | 99    |      |      |
| 358 | 2014.1.17 | OUT  | F   |     | AA        | 2    | N       | 98  | 99    | 98    |      |      |
| 359 | 2014.1.17 | OUT  | M   |     | AA        | 2    | N       | 97  | 97    | 97    |      |      |
| 360 | 2014.1.17 | OUT  | M   |     | MDS       | 2    | N       | 98  | 97    | 99    | 97   |      |
| 361 | 2014.1.20 | OUT  | M   |     | MPN       | 2    | N       | 95  | 94    | 94    |      |      |
| 362 | 2014.1.21 | OUT  | M   |     | AML       | 2    | N       | 99  | 98    | 97    |      |      |
| 363 | 2014.1.21 | OUT  | M   |     | AA        | 2    | N       | 98  | 99    | 97    |      |      |
| 364 | 2014.1.22 | OUT  | F   |     | MDS       | 2    | N       | 97  | 97    | 96    |      |      |
| 365 | 2014.1.23 | OUT  | F   |     | MDS       | 2    | N       | 99  | 99    | 99    |      |      |
| 366 | 2014.1.23 | OUT  | M   |     | AA        | 2    | N       | 99  | 99    | 99    |      |      |
| 367 | 2014.1.23 | OUT  | M   |     | AA        | 2    | N       | 99  | 98    | 99    |      |      |
| 368 | 2014.1.23 | OUT  | M   |     | MDS       | 2    | N       | 98  | 97    | 98    |      |      |
| 369 | 2014.1.23 | OUT  | M   |     | MPN       | 2    | N       | 97  | 96    | 95    |      |      |
| 370 | 2014.1.24 | OUT  | M   |     | AA        | 2    | N       | 98  | 98    | 97    |      |      |
| 371 | 2014.1.24 | OUT  | F   |     | MDS       | 2    | N       | 95  | 98    | 97    |      |      |
| 372 | 2014.1.24 | OUT  | F   |     | MF        | 2    | N       | 97  | 98    | 98    |      |      |
| 373 | 2014.1.24 | OUT  | M   |     | MDS       | 2    | N       | 98  | 96    | 97    |      |      |
| 374 | 2014.1.24 | OUT  | F   |     | AA        | 2    | N       | 98  | 99    | 99    |      |      |
| 375 | 2014.1.24 | OUT  | M   |     | CML       | 2    | N       | 95  | 96    | 97    |      |      |
| 376 | 2014.1.28 | OUT  | M   |     | AML       | 2    | N       | 99  | 99    | 99    |      |      |
| 377 | 2014.1.29 | OUT  | M   |     | MDS       | 2    | N       | 98  | 98    | 98    |      |      |
| 378 | 2014.1.30 | OUT  | M   |     | NHL       | 2    | N       | 97  | 97    | 98    |      |      |
| 379 | 2014.1.30 | OUT  | F   |     | MDS       | 2    | N       | 97  | 99    | 98    |      |      |
| 380 | 2014.1.30 | OUT  | F   |     | MDS       | 2    | N       | 95  | 95    | 96    |      |      |
| 381 | 2014.1.31 | OUT  | M   |     | MDS       | 10   | N       | 95  |       |       | 96   |      |
| 382 | 2014.1.31 | OUT  | M   |     | CML       | 2    | N       | 96  | 95    | 96    |      |      |
| 383 | 2014.1.31 | OUT  | M   |     | AA        | 2    | N       | 98  | 98    | 98    |      |      |
|     |           |      |     |     |           |      |         | 平均: | 97.4  | 97.5  | 97.5 | 97.6 |

赤字：前値が $\leq 94\%$

|       |                          |                             |      |
|-------|--------------------------|-----------------------------|------|
| after | <input type="checkbox"/> | 前値( $\geq 95\%$ )に比し2%以上の低下 | n=31 |
| After | <input type="checkbox"/> | 前値( $\geq 95\%$ )に比し2%以上の低下 | n=39 |
| 6hrs  | <input type="checkbox"/> | 前値( $\geq 95\%$ )に比し2%以上の低下 | n=18 |

前値のあるn=227例中、前値に対し1回のみ、低下条件を満たす例は42(18.5%)

前値のあるn=227例中、前値に対し2回、低下条件を満たす例は20(8.8%)

前値のあるn=227例中、前値に対し3回全て、低下条件を満たす例は2(0.9%)

# FFP(東邦大)

| No | DATE       | WARD | SEX | Age | Diagnosis | Unit | Allergy | Pre | after | After | 6hrs |
|----|------------|------|-----|-----|-----------|------|---------|-----|-------|-------|------|
| 19 | 2014.1.12  |      | M   |     | APL       | 2    | N       | 95  | 98    | 97    | 97   |
| 23 | 2014.1.17  |      | M   |     | APL       | 2    | N       | 96  | 96    | 96    | 98   |
| 18 | 2014.1.11  |      | M   |     | APL       | 2    | N       | 96  | 98    | 98    | 97   |
| 14 | 2014.1.7   |      | M   |     | APL       | 2    | N       | 97  | 97    | 98    | 98   |
| 27 | 2014.1.26  |      | M   |     | APL       | 2    | N       | 98  | 99    | 97    | 99   |
| 24 | 2014.1.19  |      | M   |     | APL       | 2    | N       | 95  | 97    | 97    | 95   |
| 26 | 2014.1.24  |      | M   |     | APL       | 2    | N       | 99  | 100   | 99    | 99   |
| 10 | 2013.12.21 |      | F   |     | ALL       | 2    | N       | 99  | 99    | 99    | 99   |
| 11 | 2013.12.24 |      | F   |     | ALL       | 2    | N       | 99  | 99    | 99    | 99   |
| 28 | 2014.1.29  |      | F   |     | ALL       | 10   | N       | 99  | 99    | 99    | 99   |
| 8  | 2013.12.9  |      | F   |     | ALL       | 2    | N       | 98  | 99    | 97    | 98   |
| 9  | 2013.12.16 |      | F   |     | ALL       | 2    | N       | 99  | 99    | 98    | 99   |
| 13 | 2014.1.6   |      | M   |     | APL       | 4    | N       | 99  | 99    | 98    | 99   |
| 7  | 2013.12.2  |      | F   |     | ALL       | 2    | N       | 99  | 98    | 97    | 99   |
| 12 | 2013.12.30 |      | M   |     | APL       | 2    | N       | 98  | 98    | 99    | 97   |
| 20 | 2014.1.13  |      | M   |     | APL       | 2    | N       | 96  | 96    | 96    | 94   |
| 15 | 2014.1.8   |      | M   |     | APL       | 2    | N       | 99  | 99    | 99    | 97   |
| 29 | 2014.1.31  |      | F   |     | ALL       | 10   | N       | 99  | 99    | 99    | 97   |
| 16 | 2014.1.9   |      | M   |     | APL       | 2    | N       | 97  | 96    | 97    | 95   |
| 17 | 2014.1.10  |      | M   |     | APL       | 2    | N       | 97  | 96    | 97    | 95   |
| 25 | 2014.1.22  |      | M   |     | APL       | 2    | N       | 99  | 97    | 99    | 97   |
| 21 | 2014.1.15  |      | M   |     | APL       | 2    | N       | 98  | 96    | 96    | 96   |
| 2  |            |      | M   |     | AML M1    | 2    | N       | 97  | 98    | 99    |      |
| 6  | 2013.11.25 |      | F   |     | ALL       | 2    | N       | 98  | 98    | 99    |      |
| 1  | 2013.11.15 |      | M   |     | AML M0    | 2    | N       | 98  | 96    | 99    |      |
| 22 | 2014.1.16  | OUT  | F   |     | TTP       | 2    | N       | 99  | 98    | 99    |      |
| 3  | 2013.11.18 | IN   | F   |     | ALL       | 2    | N       |     |       |       |      |
| 4  | 2013.11.21 | IN   | F   |     | ALL       | 2    | N       |     |       |       |      |
| 5  |            | OUT  | F   |     |           | 2    | N       |     |       |       |      |

平均: 97.8077 97.8462 97.9615 97.4091

赤字: 前値が $\leq 94\%$ ...なし

|       |  |                             |     |
|-------|--|-----------------------------|-----|
| after |  | 前値( $\geq 95\%$ )に比し2%以上の低下 | n=3 |
| After |  | 前値( $\geq 95\%$ )に比し2%以上の低下 | n=2 |
| 6hrs  |  | 前値( $\geq 95\%$ )に比し2%以上の低下 | n=7 |

前値のあるn=26例中、前値に対し1回のみ、低下条件を満たす例は7(26.9%)

前値のあるn=26例中、前値に対し2回、低下条件を満たす例は1(3.8%)

前値のあるn=26例中、前値に対し3回全て、低下条件を満たす例は1(3.8%)

# 厚生労働省研究班(田崎班):抗白血球抗体報告書

作成日：平成 26 年 4 月 25 日

作成者：日本赤十字社中央血液研究所  
中島文明

厚生労働科学研究費補助金 医薬品・療機器等レギュラトリーサイエンス総合研究事業  
「輸血療法における重篤な副作用である TRALI・TACO に対する早期診断・治療のためガイドラ  
ン策定に関する研究( H24・医薬・一般・005 )」

- ②献血ドナーの抗白血球抗体保有率と抗体の特徴、その輸血による臨床的影響評価
- ③輸血副作用、特に呼吸困難と製剤中の抗白血球抗体の関連

## 対象検体

非溶血性輸血副作用(TRALI)に関連しない女性献血者由来の輸血製剤 282 検体

|                |        |
|----------------|--------|
| 東京慈恵会医科大学付属病院  | 148 検体 |
| 東邦大学医療センター大森病院 | 134 検体 |

## 対象抗原

HLA クラス I、HLA クラス II、HNA-1a, 1b, 1c, 2a, 3a, 3b

## 試験方法

|           |            |                                         |
|-----------|------------|-----------------------------------------|
| スクリーニング試験 | HLA、HNA 抗体 | LABScreen Multi(One Lambda 社製)          |
| 確認試験      | HLA 抗体     | LABScreen Single Antigen(One Lambda 社製) |
|           | HNA 抗体     | FCM 間接蛍光抗体法(自家製)                        |
|           |            | HNA 発現細胞 ICFA 法(自家製)                    |
| DNA タイピング | HLA 遺伝子    | LABTypeSSO(One Lambda 社製)               |

## 測定方法

|                          |              |
|--------------------------|--------------|
| LABScreen Multi          | ルミネックス蛍光ビーズ法 |
| LABScreen Single Antigen | ルミネックス蛍光ビーズ法 |
| HNA 発現細胞 ICFA 法          | ルミネックス蛍光ビーズ法 |
| FCM 間接蛍光抗体法              | フローサイトメトリー   |
| LABTypeSSO               | ルミネックス蛍光ビーズ法 |