

赤血球（RBC） UF-1000iとの相関

(N=161)

| UF-5000 (HPF) | UF-1000i(HPF) | | | | | | | | 総計 |
|------------------|---------------|-----|-----|-------|-------|-------|-------|-------|-----|
| | 1未満 | 1-4 | 5-9 | 10-19 | 20-29 | 30-49 | 50-99 | 100以上 | |
| 100以上 | | | | | | | | 4 | 4 |
| 50-99 | | | | | | | 2 | | 2 |
| 30-49 | | | | | | 1 | | | 1 |
| 20-29 | | | | | | | | | 0 |
| 10-19 | | | 1 | 4 | 1 | | | | 6 |
| 5-9 | | 1 | 1 | | | | | | 2 |
| 1-4 | 4 | 37 | 9 | | | | | | 50 |
| 1未満 | 79 | 17 | | | | | | | 96 |
| 総計 | 83 | 55 | 11 | 4 | 1 | 1 | 2 | 4 | 161 |
| 一致 | 83 | 55 | 11 | 4 | 1 | 1 | 2 | 4 | 161 |

$$\text{一致率} = 161 \div 161 = 100\%$$

$$\text{完全一致率} = 128 \div 161 = 79.5\%$$

赤血球（RBC） 目視との相関

(N=161)

| UF-5000 (HPF) | 目視(HPF) | | | | | | | | 総計 |
|------------------|---------|-----|-----|-------|-------|-------|-------|-------|-----|
| | 1未満 | 1-4 | 5-9 | 10-19 | 20-29 | 30-49 | 50-99 | 100以上 | |
| 100以上 | | | | | | | | 4 | 4 |
| 50-99 | | | | | | | 2 | | 2 |
| 30-49 | | | | | | 1 | | | 1 |
| 20-29 | | | | | | | | | 0 |
| 10-19 | | | 2 | 3 | 1 | | | | 6 |
| 5-9 | 1 | | 1 | | | | | | 2 |
| 1-4 | 6 | 35 | 9 | | | | | | 50 |
| 1未満 | 79 | 17 | | | | | | | 96 |
| 総計 | 86 | 52 | 12 | 3 | 1 | 1 | 2 | 4 | 161 |
| 一致 | 85 | 52 | 12 | 3 | 1 | 1 | 2 | 4 | 160 |

$$\text{一致率} = 160 \div 161 = 99.4\%$$

$$\text{完全一致率} = 125 \div 161 = 77.6\%$$

白血球（WBC） UF-1000iとの相関

(N=161)

| UF-5000 (HPF) | UF-1000i(HPF) | | | | | | | | 総計 |
|------------------|---------------|-----|-----|-------|-------|-------|-------|-------|-----|
| | 1未満 | 1-4 | 5-9 | 10-19 | 20-29 | 30-49 | 50-99 | 100以上 | |
| 100以上 | | | | | | | | 7 | 7 |
| 50-99 | | | | | | 1 | 1 | | 2 |
| 30-49 | | | | 1 | | 2 | | | 3 |
| 20-29 | | | | 1 | | 2 | 1 | | 4 |
| 10-19 | | | 2 | 2 | 3 | | | | 7 |
| 5-9 | | 2 | 2 | 3 | | | | | 7 |
| 1-4 | 1 | 35 | 9 | | | | | | 45 |
| 1未満 | 77 | 8 | 1 | | | | | | 86 |
| 総計 | 78 | 45 | 14 | 7 | 3 | 5 | 2 | 7 | 161 |
| 一致 | 78 | 45 | 13 | 6 | 3 | 5 | 1 | 7 | 158 |

$$\text{一致率} = 158 \div 161 = 98.1\%$$

$$\text{完全一致率} = 126 \div 161 = 78.3\%$$

白血球（WBC） 目視との相関

(N=161)

| UF-5000 (HPF) | 目視(HPF) | | | | | | | | 総計 |
|------------------|---------|-----|-----|-------|-------|-------|-------|-------|-----|
| | 1未満 | 1-4 | 5-9 | 10-19 | 20-29 | 30-49 | 50-99 | 100以上 | |
| 100以上 | | | | | | | | 7 | 7 |
| 50-99 | | | | | | 1 | 1 | | 2 |
| 30-49 | | | | 1 | | 2 | | | 3 |
| 20-29 | | 1 | | | | 2 | 1 | | 4 |
| 10-19 | | | 2 | 2 | 3 | | | | 7 |
| 5-9 | | 3 | 1 | 3 | | | | | 7 |
| 1-4 | 1 | 36 | 8 | | | | | | 45 |
| 1未満 | 77 | 8 | 1 | | | | | | 86 |
| 総計 | 78 | 48 | 12 | 6 | 3 | 5 | 2 | 7 | 161 |
| 一致 | 78 | 47 | 11 | 5 | 3 | 5 | 1 | 7 | 157 |

$$\text{一致率} = 157 \div 161 = 97.5\%$$

$$\text{完全一致率} = 126 \div 161 = 78.3\%$$

上皮細胞 (EC) UF-1000iとの相関

(N=157)

| UF-5000 (HPF) | UF-1000i(HPF) | | | | | | | | 総計 |
|------------------|---------------|-----|-----|-------|-------|-------|-------|-------|-----|
| | 1未満 | 1-4 | 5-9 | 10-19 | 20-29 | 30-49 | 50-99 | 100以上 | |
| 100以上 | | | | | | | | | 0 |
| 50-99 | | | | | | | | | 0 |
| 30-49 | | | | | | | | | 0 |
| 20-29 | | | | | | | | | 0 |
| 10-19 | | | 1 | | | | | | 1 |
| 5-9 | | 4 | 3 | 1 | | | | | 8 |
| 1-4 | 6 | 29 | 1 | | | | | | 36 |
| 1未満 | 104 | 8 | | | | | | | 112 |
| 総計 | 110 | 41 | 5 | 1 | 0 | 0 | 0 | 0 | 157 |
| 一致 | 110 | 41 | 5 | 1 | 0 | 0 | 0 | 0 | 157 |

$$\text{一致率} = 157 \div 157 = 100\%$$

$$\text{完全一致率} = 136 \div 157 = 86.6\%$$

上皮細胞 (EC) 目視との相関

(N=161)

| UF-5000 (HPF) | 目視(HPF) | | | | | | | | 総計 |
|------------------|---------|-----|-----|-------|-------|-------|-------|-------|-----|
| | 1未満 | 1-4 | 5-9 | 10-19 | 20-29 | 30-49 | 50-99 | 100以上 | |
| 100以上 | | | | | | | | | 0 |
| 50-99 | | | | | | | | | 0 |
| 30-49 | | | | | | | | | 0 |
| 20-29 | 1 | | | | | | | | 1 |
| 10-19 | | | 1 | | | | | | 1 |
| 5-9 | | 4 | 4 | 1 | | | | | 9 |
| 1-4 | 12 | 23 | 2 | | | | | | 37 |
| 1未満 | 100 | 12 | 1 | | | | | | 113 |
| 総計 | 113 | 39 | 8 | 1 | 0 | 0 | 0 | 0 | 161 |
| 一致 | 112 | 39 | 7 | 1 | 0 | 0 | 0 | 0 | 159 |

$$\text{一致率} = 159 \div 161 = 98.8\%$$

$$\text{完全一致率} = 127 \div 161 = 78.9\%$$

円柱 (CAST) UF-1000iとの相関

(N=161)

| UF-5000 (LPF) | UF-1000i(LPF) | | | |
|------------------|---------------|-----|------|-----|
| | 1未満 | 1-9 | 10以上 | 総計 |
| 10-99 | | 1 | 2 | 3 |
| 1-9 | 7 | 23 | 6 | 36 |
| 1未満 | 90 | 32 | | 122 |
| 総計 | 97 | 56 | 8 | 161 |
| 一致 | 97 | 55 | 8 | 160 |

| | | | | | | |
|-----|---|-----|---|-----|---|------|
| 一致率 | = | 161 | ÷ | 161 | = | 100% |
|-----|---|-----|---|-----|---|------|

| | | | | | | |
|-------|---|-----|---|-----|---|-------|
| 完全一致率 | = | 115 | ÷ | 161 | = | 71.4% |
|-------|---|-----|---|-----|---|-------|

円柱 (CAST) 目視との相関

(N=161)

| UF-5000 (LPF) | 目視(LPF) | | | |
|------------------|---------|-----|------|-----|
| | 1未満 | 1-9 | 10以上 | 総計 |
| 10-99 | 1 | 1 | 1 | 3 |
| 1-9 | 32 | 2 | 2 | 36 |
| 1未満 | 122 | | | 122 |
| 総計 | 155 | 3 | 3 | 161 |
| 一致 | 154 | 2 | 3 | 159 |

| | | | | | | |
|-----|---|-----|---|-----|---|-------|
| 一致率 | = | 160 | ÷ | 161 | = | 99.4% |
|-----|---|-----|---|-----|---|-------|

| | | | | | | |
|-------|---|-----|---|-----|---|-------|
| 完全一致率 | = | 125 | ÷ | 161 | = | 77.6% |
|-------|---|-----|---|-----|---|-------|

細菌 (BACT) UF-1000iとの相関

(N=161)

| UF-5000 (ランク) | UF-1000i | | | | | 総計 |
|------------------|----------|----|----|----|----|-----|
| | - | ± | 1+ | 2+ | 3+ | |
| 3+ | | | | 3 | 8 | 11 |
| 2+ | | | 3 | 7 | | 10 |
| 1+ | | 11 | 14 | | | 25 |
| ± | 8 | 45 | 1 | | | 54 |
| - | 24 | 37 | | | | 61 |
| 総計 | 32 | 93 | 18 | 10 | 8 | 161 |
| 一致 | 32 | 93 | 18 | 10 | 8 | 161 |

一致率 = 161 ÷ 161 = 100%

完全一致率 = 98 ÷ 161 = 60.9%

細菌 (BACT) 目視との相関

(N=161)

| UF-5000 (ランク) | 目視 | | | | | 総計 |
|------------------|----|----|----|----|----|-----|
| | - | ± | 1+ | 2+ | 3+ | |
| 3+ | | | | 3 | 8 | 11 |
| 2+ | | | 3 | 7 | | 10 |
| 1+ | | 11 | 14 | | | 25 |
| ± | 8 | 44 | 2 | | | 54 |
| - | 24 | 37 | | | | 61 |
| 総計 | 32 | 92 | 19 | 10 | 8 | 161 |
| 一致 | 32 | 92 | 19 | 10 | 8 | 161 |

一致率 = 161 ÷ 161 = 100%

完全一致率 = 97 ÷ 161 = 60.2%

UF-5000とUF-1000i／目視 測定結果一致率

| 項目名 | 表記 | UF-1000i vs UF-5000 | | 目視 vs UF-5000 | |
|------|------|---------------------|-------|---------------|-------|
| | | 一致率 | 完全一致率 | 一致率 | 完全一致率 |
| 赤血球 | RBC | 100.0% | 79.5% | 99.4% | 77.6% |
| 白血球 | WBC | 98.1% | 78.3% | 97.5% | 78.3% |
| 上皮細胞 | EC | 100% | 86.6% | 98.8% | 78.9% |
| 円柱 | CAST | 100% | 71.4% | 99.4% | 77.6% |
| 細菌 | BACT | 100% | 60.9% | 100% | 60.2% |

UF-5000の測定結果換算について

○ 赤血球、白血球、上皮細胞

UFの定量値（#/uL）を下表のように割り当てました。

| UF定量値（#/μL） | | | | 結果 |
|-------------|---|-------|-----|-----------|
| 0.0 | - | 5.5 | /μL | 1未満/HPF |
| 5.6 | - | 27.7 | /μL | 1-4/HPF |
| 27.8 | - | 55.5 | /μL | 5-9/HPF |
| 55.6 | - | 111.1 | /μL | 10-19/HPF |
| 111.2 | - | 166.6 | /μL | 20-29/HPF |
| 166.7 | - | 277.7 | /μL | 30-49/HPF |
| 277.8 | - | 555.5 | /μL | 50-99/HPF |
| 555.6 | - | | /μL | 100以上/HPF |

○ 円柱

UFの定量値（#/uL）を下表のように割り当てました。

| UF定量値（#/μL） | | | | 結果 |
|-------------|---|------|-----|----------|
| 0.00 | - | 0.34 | /μL | 1未満/LPF |
| 0.35 | - | 3.44 | /μL | 1-9/LPF |
| 3.45 | - | | /μL | 10以上/LPF |

○ 細菌

UFの定量値（#/uL）を下表のように割り当てました。

| UF定量値（#/μL） | | | | 判定 |
|-------------|---|--------|-----|-----|
| 0.0 | - | 9.9 | /μL | - |
| 10.0 | | 99.9 | /μL | +/- |
| 100.0 | - | 999.9 | /μL | 1+ |
| 1000.0 | - | 9999.9 | /μL | 2+ |
| 10000.0 | - | | /μL | 3+ |