24 MAR 2006

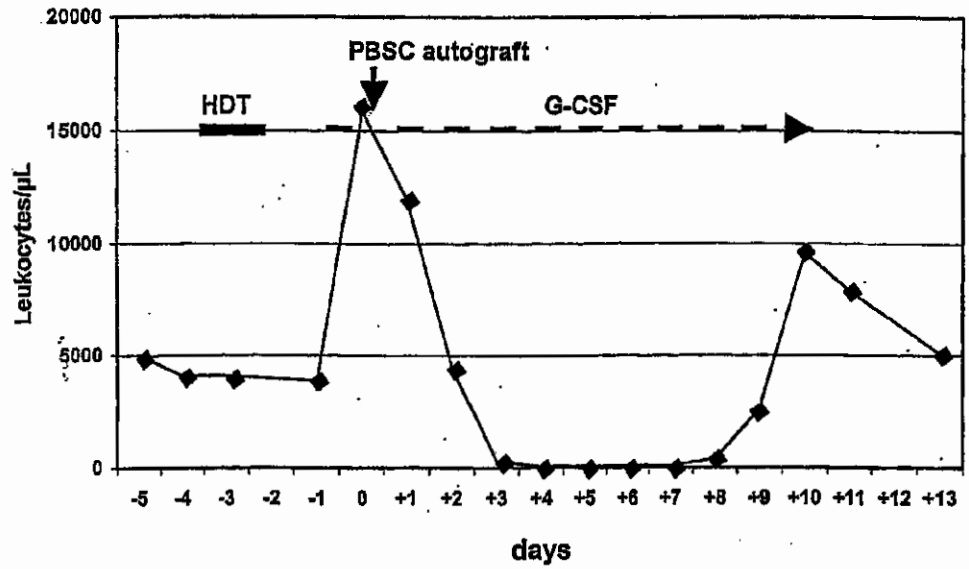


Fig. 1

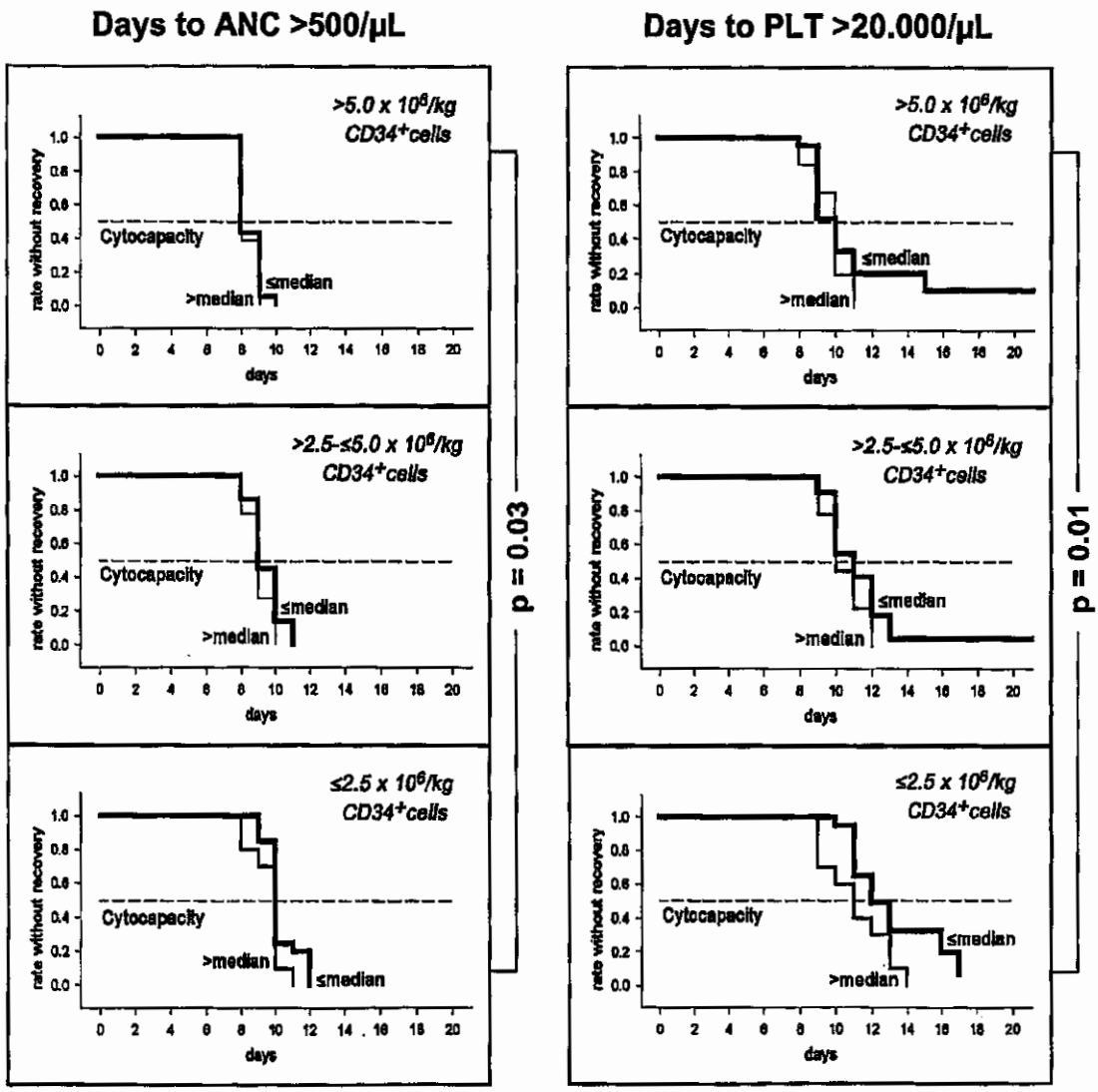
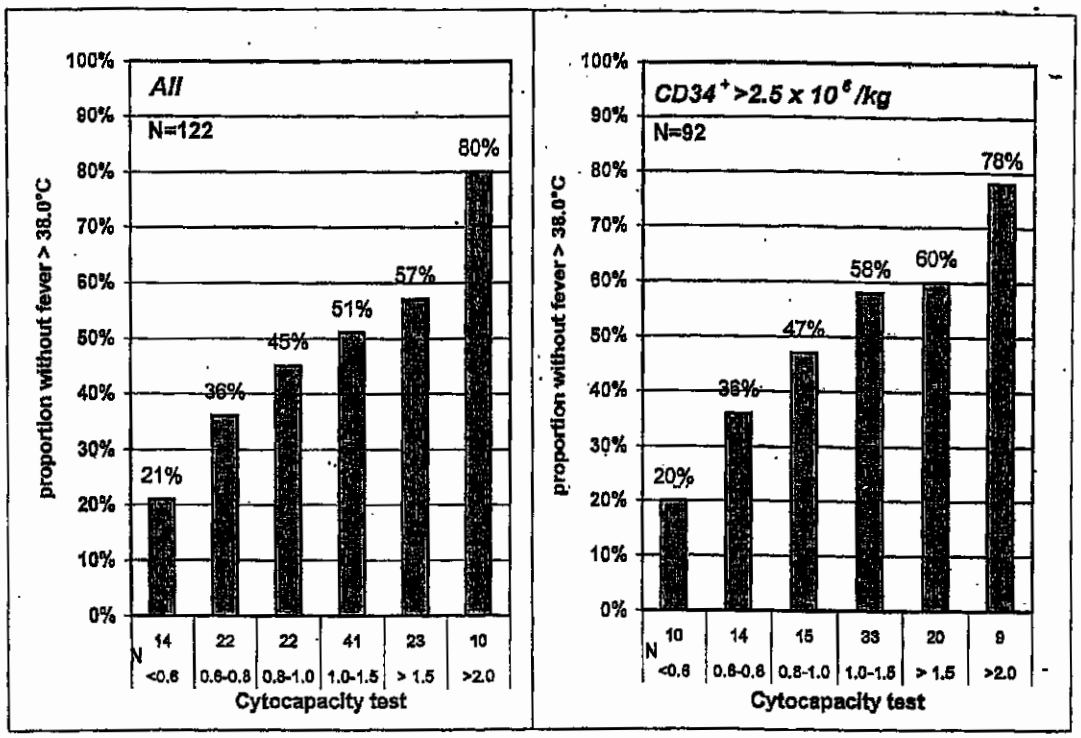

Days to ANC >500/µL
Days to PLT >20.000/µL
>5.0 x 10⁶/kg CD34⁺cells
>2.5-≤5.0 x 10⁶/kg CD34⁺cells
≤2.5 x 10⁶/kg CD34⁺cells
rate without recovery
Cytocapacity
≤median
>median
days
p = 0.03
p = 0.01

Fig. 2

A


All
N=122
proportion without fever > 38.0°C
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
21%
36%
45%
51%
57%
80%
N 14 22 22 41 23 10
<0.6 0.6-0.8 0.8-1.0 1.0-1.5 > 1.5 >2.0
Cytocapacity test
CD34+>2.5 x 10^6/kg
N=92
20%
36%
47%
58%
60%
78%
N 10 14 15 33 20 9
<0.6 0.6-0.8 0.8-1.0 1.0-1.5 > 1.5 >2.0
Cytocapacity test

B

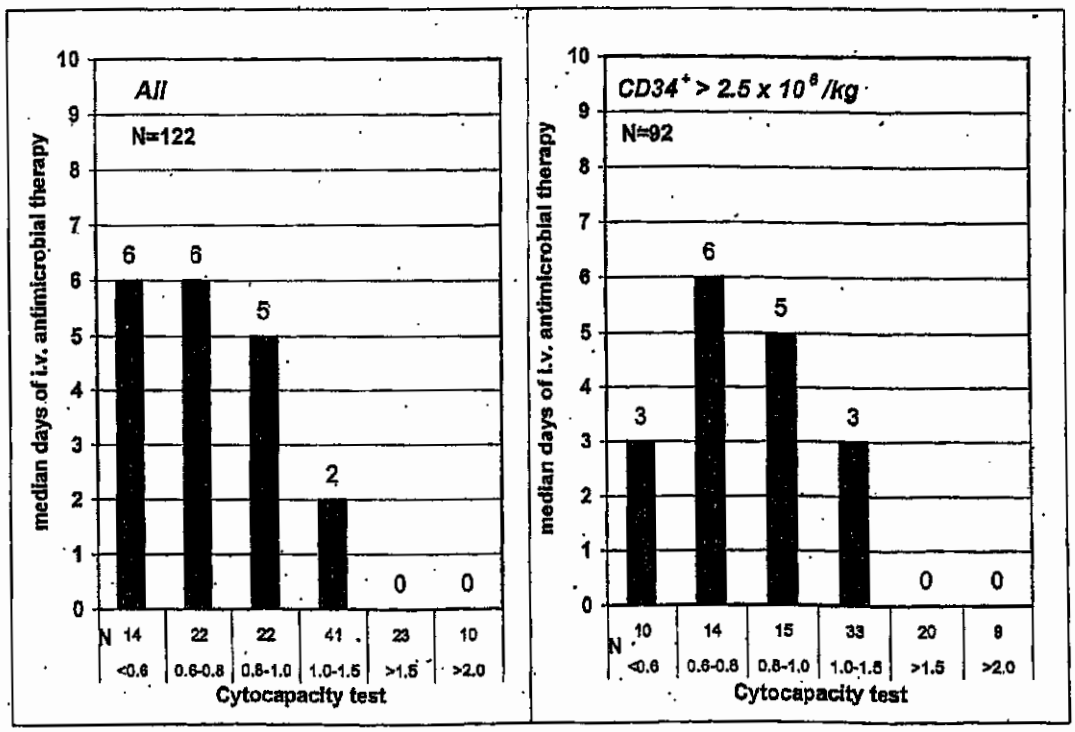

All
N=122
median days of i.v. antimicrobial therapy
10
9
8
7
6
5
4
3
2
1
0
6 6 5 2 0 0
N 14 22 22 41 23 10
<0.6 0.6-0.8 0.8-1.0 1.0-1.5 >1.5 >2.0
Cytocapacity test
CD34+> 2.5 x 10^6/kg
N=92
3 6 5 3 0 0
N 10 14 15 33 20 9
<0.6 0.6-0.8 0.8-1.0 1.0-1.5 >1.5 >2.0
Cytocapacity test

Fig. 3

Fig. 4

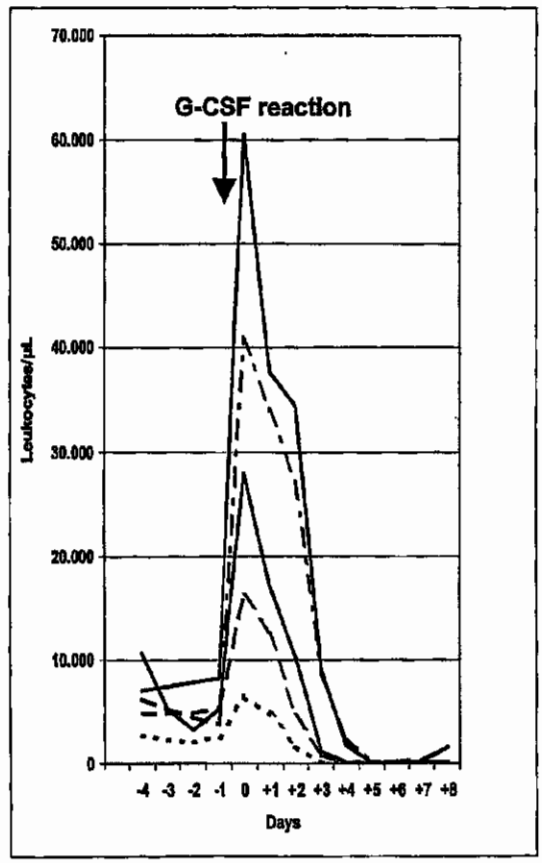
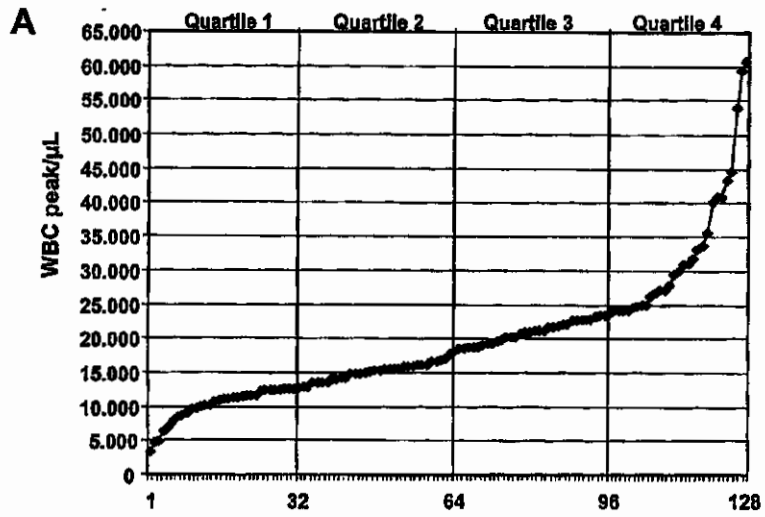
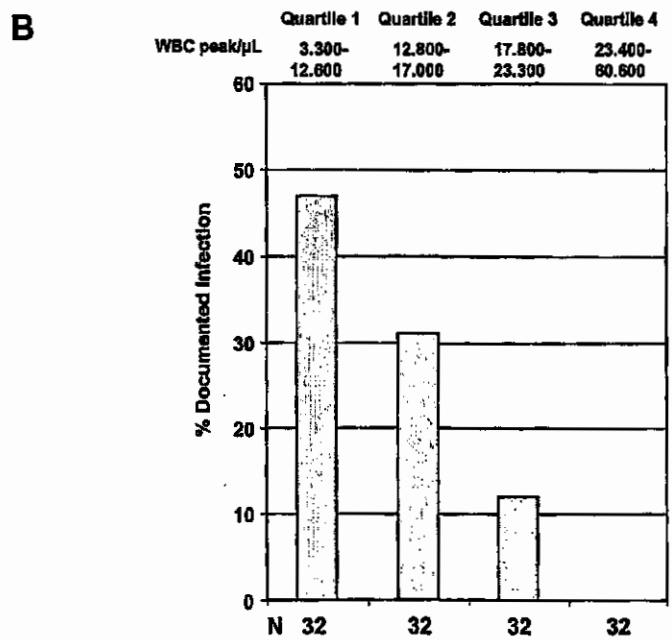

70.000
60.000
50.000
40.000
30.000
20.000
10.000
0
G-CSF reaction
Leukocytes/µL
-4 -3 -2 -1 0 +1 +2 +3 +4 +5 +6 +7 +8
Days

Fig. 5


A
Quartile 1
Quartile 2
Quartile 3
Quartile 4
WBC peak/µL
65.000
60.000
55.000
50.000
45.000
40.000
35.000
30.000
25.000
20.000
15.000
10.000
5.000
0
1
32
64
96
128


B
Quartile 1
Quartile 2
Quartile 3
Quartile 4
WBC peak/µL
3.300-12.600
12.800-17.000
17.800-23.300
23.400-60.600
% Documented Infection
60
50
40
30
20
10
0
N 32
32
32
32

SEQUENCE LISTING

<110> LMU-München

<120> A cytocapacity test for the prediction of the hematopoietic recovery, neutropenic fever, and antimicrobial treatment following high-dose cytotoxic chemotherapy

<130> F 2748 EP

<160> 4

<170> PatentIn version 3.1

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Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Cys Leu
        35                  40                  45

Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys
    50                  55                  60

Leu Val Ser Glu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu
65                  70                  75                  80

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser
                85                  90                  95
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Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile
115 120 125

Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala
130 135 140

Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala
145 150 155 160

Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala
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35 40 45

Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys
50 55 60

Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu
65 70 75 80

Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser
85 90 95

Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu
100 105 110

Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu
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Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala
130 135 140

Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu
145 150 155 160

Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg
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20 25 30

Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
35 40 45

Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys
50 55 60

Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
65 70 75 80

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
85 90 95

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
100 105 110

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro
115 120 125

Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
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Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
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Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
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1 5 10 15

Cys Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln
20 25 30

Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val
35 40 45

Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys
50 55 60

Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser
65 70 75 80

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser
85 90 95

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp
100 105 110

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro

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        115                 120                 125

Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe
    130                 135                 140

Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe
145                 150                 155                 160

Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro
                165                 170
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