

# Leukemia

NAME/T.H.	AGE/26	SEX/Female	AREA/Germany
17/11/2004: Referral to hospital with a hemoglobin (Hb) value of 5.5. Bone marrow biopsy resulted in diagnosis of ALL (Pro-B-ALL) with 97% B-cells.			
18/11/2004: Transfer to the intensive oncological care unit. Hemoglobin value of 4.6.			
19/11/2004: Start cortisone treatment, daily EPO injections.			
20/11/2004: Further deterioration of the patient's general condition, Hb-value declines to 3.7. Initiate chemotherapy (Vincristin).			
21/11/2004 Second round of chemotherapy (VCR, dexamethasone, 50mg Daunoblastina).			
22/11/2004: Hb-value 3.5; leukocytes 1.3; thrombocytes 4. Administration of G-CSF (granulocyte-colony stimulating factor).			
24/11/2004: Absolute bed rest prescribed until 25.11.2004. Increasing signs of fatigue and exhaustion. Administered oxygen.			
26/11/2004: Hb-value declines to 2.1. Conversation with medical staff because of acute life-threatening danger. Third round of chemotherapy.			
27/11/2004: Deterioration of general condition.			
28/11/2004: Transfer to single bedroom (isolation), Hb-value declines to 1.4. <b>Initiated intake of RBAC (Rice Bran Arabinoxylan Compound-nutritional supplement) 3g per day (at patient's own risk).</b>			
29/11/2004: EPO-injection advanced for one day.			
01/12/2004: Hb-value remained stable at 1.4.			
03/12/2004: Fourth round of chemotherapy.			
05/12/2004: Hb-value increases to 1.9. Thrombocytes octuplicate (increase eightfold) to 32.0. Discontinue cortisone treatment.			
06/12/2004: End of isolation. EPO-injection (Aranesp).			
07/12/2004: Removal of IV tubes, as sufficient fluids can be taken orally.			

09/12/2004: Bone marrow biopsy; blasts are <5%, extreme bone marrow regeneration and increase of blasts.

10/12/2004: Fifth round of chemotherapy.

13/12/2004: Transfer patient to the regular unit. Hb-value increased to 4.3.

16/12/2004: Hb increased to 5.0, thrombocytes to 180,000.

17/12/2004: Sixth round of chemotherapy.

18/12/2004: Hb increased to 5.8, thrombocytes are 225,000, leucocytes are 10.9.

20/12/2004: Hb 6.1, thrombocytes are 220,000, leukocytes 5.9. Waiting for increase of Hb-value to at least 90g/l, preferably greater than 100g/l, then continue treatment.

28/12/2004: Continuation of the treatment.

24/01/2005: Hb 12.5, thrombocytes 289,000, leukocytes 4.9.

25/01/2005: Initiate ALL induction therapy, stage 2 (Endoxan 1,670, Alexan 1,000, Purinethol 100 mg daily) + Granozyte + 2x 15mg MTX (into bone marrow) + for the protection of the bladder, Uromitexan 400mg/h 0-4-8.

29/01/2005: Adjourn chemotherapy due to headache and recurrent vomiting (depending on position).

28/02/2005: Continuation of chemo induction-stage II.

02/03/2005: Hb 8, thrombocytes 20,4000, leukocytes 24.6 (G-CSF).

04/03/2005: End of therapy.

08/03/2005: Start with prophylactic radiation of the skull at 12 Gy (gray unit) 6x, at the radiation clinic in Ludwigsburg.

18/03/2005: Hb 8.6, thrombocytes 70,000, leukocytes 2.8.

23/03/2005: Inpatient admission, referral to hospital RBK in Stuttgart.

24/03/2005: Hickman implantation. Laboratory: Hb 6.8, thrombocytes 64,000, leukocytes 1.6.

11/04/2005: Whole-body radiation in Heidelberg, TBI 12Gy.

12/04/2005: Laboratory: Hb 12.8, thrombocytes 78,000, leukocytes 3.58.

15/04/2005: Laboratory: Hb 11.6, thrombocytes 64,000, leukocytes 3.3.

15/04/2005: Admitted to the RBK in Stuttgart.

16/04/2005: Myeloablative therapy with cyclophosphamide (120mg/kg body weight). Start with high-dose chemo Endoxan.

18/04/2005: **Discontinued RBAC intake.**

19/04/2005: Stem cell transplantation (transplanted number of cells:  $5.04 \times 10^6$ /kg body weight). CD34 pos. cells, GvHD. Prophylaxis: CSA mirror adapted, MMF transplant. Complications: grade IV neutropenia, grade IV thrombocytopenia, grade III anemia, "minor bleeding", gross hematuria, multiple petechia, subarachnoidal hemorrhage (mouth).

09/05/2005: Hb 11.1, thrombocytes 151,000, leukocytes 4.0. Medications: folic acid, Multibionta, Aranesp, Pantoprazole, magnesium preparation, Levofloxacin, Metronidazole, Fluconazol, Cyclosporin (Sandimmun), Mycophenolate Mofetil (Cellsept).

09/01/2006: End of immunosuppression, discontinuation of Sandimmun.

13/02/2006: Hb 10.7, thrombocytes 131,000, leukocytes 4.0. **Start with RBAC 1g daily (for about 3 months).**

09/03/2006: Hb 11.2, thrombocytes 143,000, leukocytes 4.8.

20/04/2006: Hb 11.7, thrombocytes 178,000, leukocytes 4.7.

09/05/2006: **Discontinued RBAC intake.**

31/05/2006: Hb 11.3, thrombocytes 144,000, leucocytes 4.1.

01/06/2006: Returned to work for 15 h/ week.

05/10/2006: Hb 12.4, thrombocytes 225,000, leukocytes 4.4, ESR 40/80.

07/10/2006: Fever up to 39.5°C.

20/10/2006: **RBAC- 4 tablets of RBAC (=2g) twice daily. After 3 days, 1 x daily (=1g, in total, 50 tablets).**

13/11/2006: Hb 11.8, thrombocytes 131,000, leukocytes 4.3. Liver enzyme parameters continue to decline.

20/02/2008: Patient feels very well and healthy, blood values are optimal.

