

Table 1 Characteristics of patients (0-24 years) diagnosed between 1980 and 2005 with chronic myeloid leukemia in England by sex, age group and period of diagnosis

	Alive^a (N=233)	Dead^a (N=305)	Total (N=538)
Sex			
Male	147 (63.1)	180 (59.0)	327 (60.8)
Female	86 (36.9)	125 (41.0)	211 (39.2)
Age group			
< 5 years	25 (10.7)	57 (18.7)	82 (15.2)
5 - 14 years	55 (23.6)	62 (20.3)	117 (21.7)
15 - 24 years	153 (65.7)	186 (61.0)	339 (63.0)
Period of diagnosis			
1980-1984	10 (4.3)	72 (23.6)	82 (15.2)
1985-1989	31 (13.3)	71 (23.3)	102 (19.0)
1990-1994	33 (14.2)	66 (21.6)	99 (18.4)
1995-1999	49 (21.0)	55 (18.0)	104 (19.3)
2000-2005	110 (47.2)	41 (13.4)	151 (28.1)

^a The vital status of each patients was assessed during the first 15 years of follow-up

Table 2 Results from the univariable mixture cure model: “cure” proportion and median survival time of the “uncured” (in years) with their 95% confidence intervals for each period of diagnosis

Period of diagnosis	Proportion of “cured” (95% CI)	Median survival time [years] of “uncured” (95% CI)
1980-1984	0.09 (0.04-0.22)	2.11 (1.34-2.87)
1985-1989	0.26 (0.16-0.39)	2.72 (1.61-3.84)
1990-1994	0.32 (0.23-0.42)	2.45 (1.69-3.22)
1995-1999	0.47 (0.37-0.56)	1.52 (0.97-2.06)
2000-2005	0.71 (0.62-0.79)	2.00 (0.85-3.15)

Table 3 Results from the multivariable mixture cure model (using the retained final model*): “cure” proportion and median survival time of the “uncured” (in years) with their 95% confidence intervals for specific age at diagnosis and year of diagnosis

Age at diagnosis (years)	Year of diagnosis	Proportion of “cured”	Median survival time [years]
		(95% CI)	of “uncured” (95% CI)
0.5	1980	0.01 (0-0.22)	1.13 (0.58-1.68)
0.5	1990	0.29 (0.16-0.48)	0.83 (0.44-1.22)
0.5	2000	0.56 (0.37-0.73)	0.61 (0.27-0.95)
0.5	2005	0.81 (0.61-0.92)	0.52 (0.20-0.85)
5	1980	0.01 (0-0.27)	2.00 (1.18-2.82)
5	1990	0.34 (0.24-0.46)	1.47 (1.02-1.93)
5	2000	0.61 (0.49-0.71)	1.09 (0.69-1.48)
5	2005	0.84 (0.71-0.92)	0.93 (0.53-1.34)
15	1980	0.01 (0-0.25)	4.08 (2.45-5.72)
15	1990	0.30 (0.20-0.42)	3.01 (2.15-3.87)
15	2000	0.56 (0.47-0.65)	2.21 (1.47-2.95)
15	2005	0.82 (0.69-0.90)	1.90 (1.12-2.68)
24	1980	0.01 (0-0.32)	3.14 (1.73-4.56)
24	1990	0.39 (0.27-0.52)	2.32 (1.49-3.15)
24	2000	0.65 (0.54-0.76)	1.71 (1.02-2.39)
24	2005	0.87 (0.75-0.93)	1.46 (0.78-2.15)

* Multivariable model with a linear effect of year of diagnosis on survival of the “uncured” and a non-linear effect of year of diagnosis on the proportion of “cured”, and a non-linear effect of age at diagnosis on both the survival of the “uncured” and on the proportion of “cured”.