Table B1. Difference in 10-year restricted mean survival time (RMST) by cancer site, age group, survival framework, model, and follow-up time used for extrapolation. The 10-year observed RMST (years) was the area under the Kaplan-Meier survival curve. The extrapolated values were retrieved from models fitted to each cohort with 2, 3 and 5 years of follow-up data, and extrapolated to 10 years. Difference (years) was calculated as extrapolated minus observed. Bold numbers are values mentioned in the main texts.

| | Colon | | | | | | Breast | | | | | | Melanoma | | | | | | Prostate | | | | | | CML | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Age group | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | |
| Survival framework | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS |
| 10-year observed RMST (years) | 5.59 | | 5.19 | | 4.05 | | 8.10 | | 7.82 | | 5.75 | | 8.70 | | 7.63 | | 5.53 | | 6.35 | | 6.10 | | 4.47 | | 4.71 | | 3.21 | | 1.88 | |
| **Extrapolation from 2 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -1.62 | -1.63 | -1.49 | -1.52 | -1.02 | -1.07 | 0.04 | 0.02 | 0.02 | -0.06 | 0.01 | -0.12 | -0.18 | -0.17 | -0.33 | -0.40 | -0.32 | -0.38 | 0.14 | 0.08 | 0.07 | -0.04 | 0.04 | -0.06 | -0.07 | -0.07 | 0.14 | 0.12 | -0.25 | -0.25 |
| Weibull | -1.42 | -1.43 | -1.13 | -1.19 | -0.38 | -0.63 | -0.77 | -0.85 | -0.21 | -0.28 | 0.10 | -0.05 | -0.45 | -0.43 | -0.72 | -0.74 | -0.75 | -0.75 | -1.31 | -1.45 | -0.54 | -0.66 | 0.01 | -0.13 | -0.72 | -0.73 | 0.16 | 0.15 | -0.02 | -0.05 |
| Gompertz | -0.10 | -0.15 | 0.28 | 0.07 | 1.12 | 0.30 | -3.21 | -3.31 | -1.02 | -1.09 | 0.51 | 0.25 | -1.19 | -1.21 | -1.76 | -1.78 | -1.02 | -1.23 | -2.89 | -2.95 | -1.94 | -2.08 | -0.02 | -0.24 | -1.50 | -1.50 | -0.10 | -0.09 | 1.02 | 0.67 |
| Log-logistic | -0.92 | -0.97 | -0.64 | -0.80 | 0.07 | -0.44 | -0.50 | -0.59 | -0.03 | -0.16 | 0.47 | 0.04 | -0.34 | -0.35 | -0.44 | -0.57 | -0.18 | -0.55 | -0.62 | -0.81 | -0.03 | -0.30 | 0.59 | 0.04 | -0.02 | -0.06 | 0.84 | 0.73 | 0.45 | 0.23 |
| Log-normal | -0.70 | -0.74 | -0.45 | -0.62 | 0.19 | -0.35 | 0.05 | -0.05 | 0.35 | 0.16 | 0.83 | 0.21 | -0.03 | -0.06 | 0.01 | -0.20 | 0.21 | -0.29 | 0.09 | -0.17 | 0.52 | 0.18 | 0.94 | 0.27 | 0.47 | 0.42 | 1.11 | 0.99 | 0.46 | 0.26 |
| Generalized gamma | -0.31 | -0.36 | -0.05 | -0.22 | 0.67 | 0.15 | -1.23 | -1.29 | -0.48 | -0.45 | 0.73 | -0.17 | -0.15 | -0.16 | -1.20 | -1.00 | 0.35 | -0.19 | -2.08 | -2.44 | -1.53 | -1.36 | 0.39 | -0.22 | -0.69 | -0.68 | -0.74 | -0.68 | 0.59 | 0.42 |
| Spline hazard | -0.56 | -0.59 | -0.47 | -0.55 | -0.02 | -0.28 | **-1.10** | **-1.14** | -0.55 | -0.62 | 0.13 | -0.04 | -0.50 | -0.49 | **-1.10** | **-1.17** | -0.68 | -0.84 | -0.92 | -0.98 | -0.66 | -0.76 | -0.01 | -0.13 | -0.08 | -0.08 | -0.21 | -0.20 | 0.37 | 0.27 |
| Spline odds | -0.39 | -0.43 | -0.27 | -0.41 | 0.20 | -0.21 | -0.81 | -0.86 | -0.35 | -0.47 | 0.38 | 0.02 | -0.41 | -0.41 | -0.80 | -0.96 | -0.26 | -0.67 | -0.46 | -0.56 | -0.25 | -0.46 | 0.38 | -0.02 | 0.30 | 0.28 | 0.25 | 0.20 | 0.57 | 0.37 |
| Spline normal | -0.36 | -0.41 | -0.25 | -0.38 | 0.20 | -0.20 | -0.48 | -0.53 | -0.11 | -0.25 | 0.51 | 0.09 | -0.24 | -0.25 | -0.54 | -0.70 | -0.15 | -0.53 | -0.24 | -0.33 | -0.06 | -0.26 | 0.44 | 0.06 | 0.35 | 0.33 | 0.19 | 0.16 | 0.50 | 0.34 |
| **Extrapolation from 3 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -1.20 | -1.22 | -1.01 | -1.05 | -0.68 | -0.74 | -0.10 | -0.12 | -0.03 | -0.10 | 0.00 | -0.10 | -0.21 | -0.20 | -0.34 | -0.39 | -0.24 | -0.28 | -0.06 | -0.10 | -0.05 | -0.14 | 0.04 | -0.05 | -0.09 | -0.09 | 0.19 | 0.17 | -0.13 | -0.13 |
| Weibull | -0.91 | -0.93 | -0.60 | -0.68 | -0.21 | -0.43 | -0.52 | -0.54 | -0.15 | -0.21 | 0.03 | -0.06 | -0.33 | -0.32 | -0.51 | -0.51 | -0.38 | -0.38 | -0.75 | -0.80 | -0.39 | -0.45 | 0.02 | -0.07 | -0.39 | -0.39 | 0.21 | 0.20 | 0.02 | 0.00 |
| Gompertz | -0.02 | -0.07 | 0.34 | 0.16 | 0.63 | 0.13 | -1.28 | -1.32 | -0.35 | -0.36 | 0.09 | 0.03 | -0.46 | -0.45 | -0.67 | -0.61 | -0.27 | -0.27 | -1.54 | -1.57 | -0.90 | -0.93 | 0.02 | -0.06 | -0.59 | -0.58 | 0.14 | 0.15 | 0.47 | 0.34 |
| Log-logistic | -0.65 | -0.69 | -0.37 | -0.50 | 0.07 | -0.35 | -0.35 | -0.39 | -0.03 | -0.13 | 0.32 | 0.00 | -0.26 | -0.27 | -0.33 | -0.41 | -0.03 | -0.29 | -0.34 | -0.43 | -0.03 | -0.22 | 0.44 | 0.04 | 0.07 | 0.05 | 0.70 | 0.62 | 0.37 | 0.19 |
| Log-normal | -0.53 | -0.57 | -0.25 | -0.40 | 0.14 | -0.29 | -0.05 | -0.11 | 0.21 | 0.06 | 0.54 | 0.13 | -0.08 | -0.10 | -0.07 | -0.22 | 0.18 | -0.17 | 0.02 | -0.13 | 0.28 | 0.04 | 0.63 | 0.18 | 0.32 | 0.29 | 0.83 | 0.76 | 0.34 | 0.19 |
| Generalized gamma | -0.27 | -0.31 | 0.02 | -0.12 | 0.35 | 0.02 | -0.42 | -0.42 | -0.11 | -0.14 | 0.20 | 0.11 | -0.16 | -0.16 | -0.31 | -0.33 | 0.13 | -0.08 | -0.43 | -0.43 | -0.38 | -0.41 | 0.12 | 0.04 | -0.17 | -0.16 | 0.04 | 0.04 | 0.31 | 0.23 |
| Spline hazard | -0.38 | -0.41 | -0.07 | -0.15 | -0.03 | -0.20 | -0.25 | -0.27 | 0.00 | -0.04 | -0.09 | -0.15 | -0.18 | -0.17 | -0.32 | -0.33 | -0.14 | -0.15 | -0.38 | -0.40 | -0.29 | -0.34 | 0.04 | -0.02 | -0.09 | -0.08 | 0.15 | 0.15 | 0.08 | 0.05 |
| Spline odds | -0.30 | -0.33 | -0.01 | -0.11 | 0.10 | -0.18 | -0.18 | -0.20 | 0.06 | -0.01 | 0.11 | -0.10 | -0.15 | -0.14 | -0.23 | -0.29 | 0.04 | -0.12 | -0.16 | -0.22 | -0.08 | -0.21 | 0.27 | 0.03 | 0.13 | 0.13 | 0.42 | 0.38 | 0.24 | 0.14 |
| Spline normal | -0.30 | -0.33 | -0.01 | -0.11 | 0.08 | -0.18 | -0.09 | -0.12 | 0.13 | 0.03 | 0.15 | -0.05 | -0.09 | -0.10 | -0.16 | -0.24 | 0.07 | -0.09 | -0.09 | -0.15 | -0.02 | -0.14 | 0.27 | 0.06 | 0.12 | 0.13 | 0.37 | 0.35 | 0.18 | 0.11 |
| **Extrapolation from 5 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -0.48 | **-0.49** | -0.39 | -0.43 | -0.22 | -0.28 | -0.13 | -0.14 | -0.05 | -0.09 | 0.01 | -0.02 | -0.13 | -0.12 | -0.14 | -0.14 | -0.09 | -0.09 | -0.15 | -0.17 | -0.05 | -0.09 | 0.03 | -0.02 | -0.13 | -0.13 | 0.05 | 0.05 | -0.03 | -0.03 |
| Weibull | -0.30 | -0.32 | -0.20 | -0.27 | -0.03 | -0.20 | -0.20 | -0.21 | -0.07 | -0.10 | 0.02 | 0.00 | -0.14 | -0.12 | -0.13 | -0.12 | -0.09 | -0.09 | -0.29 | -0.31 | -0.11 | -0.14 | 0.02 | -0.02 | -0.19 | -0.19 | 0.04 | 0.04 | 0.03 | 0.00 |
| Gompertz | 0.02 | -0.01 | 0.09 | 0.02 | 0.21 | 0.04 | -0.24 | -0.24 | -0.09 | -0.10 | 0.03 | 0.04 | -0.11 | -0.08 | -0.04 | -0.02 | 0.01 | 0.00 | -0.35 | -0.37 | -0.13 | -0.13 | 0.03 | 0.01 | -0.19 | -0.19 | -0.02 | -0.02 | 0.13 | 0.09 |
| Log-logistic | -0.30 | -0.33 | -0.18 | -0.28 | 0.06 | -0.22 | -0.15 | -0.17 | -0.02 | -0.07 | 0.17 | 0.03 | -0.12 | -0.11 | -0.09 | -0.11 | 0.04 | -0.08 | -0.15 | -0.20 | 0.03 | -0.07 | 0.24 | 0.03 | 0.00 | -0.01 | 0.37 | 0.33 | 0.25 | 0.12 |
| Log-normal | -0.23 | -0.26 | -0.13 | -0.22 | 0.08 | -0.19 | -0.07 | -0.09 | 0.06 | -0.01 | 0.24 | 0.08 | -0.07 | -0.07 | -0.02 | -0.07 | 0.10 | -0.06 | -0.04 | -0.10 | 0.13 | 0.02 | 0.29 | 0.09 | 0.08 | 0.07 | 0.34 | 0.33 | 0.19 | 0.11 |
| Generalized gamma | -0.11 | -0.14 | -0.03 | -0.10 | 0.12 | -0.01 | -0.12 | -0.13 | -0.04 | -0.06 | 0.03 | 0.05 | -0.08 | -0.05 | -0.03 | -0.05 | 0.06 | -0.01 | -0.13 | -0.15 | -0.03 | -0.06 | 0.04 | 0.02 | -0.10 | -0.10 | -0.04 | -0.04 | 0.11 | 0.08 |
| Spline hazard | -0.10 | -0.11 | -0.07 | -0.11 | 0.03 | -0.08 | -0.10 | -0.10 | -0.05 | -0.06 | -0.01 | 0.01 | -0.08 | -0.05 | 0.01 | 0.02 | -0.01 | -0.01 | -0.09 | -0.11 | -0.02 | -0.03 | 0.03 | 0.01 | -0.08 | -0.08 | -0.03 | -0.02 | 0.01 | 0.00 |
| Spline odds | -0.09 | -0.11 | -0.05 | -0.10 | 0.07 | -0.08 | -0.08 | -0.09 | -0.02 | -0.05 | 0.06 | 0.02 | -0.07 | -0.04 | 0.03 | 0.03 | 0.05 | -0.01 | -0.05 | -0.07 | 0.04 | -0.01 | 0.11 | 0.03 | -0.02 | -0.02 | 0.06 | 0.05 | 0.06 | 0.02 |
| Spline normal | -0.09 | -0.11 | -0.05 | -0.10 | 0.06 | -0.08 | -0.07 | -0.08 | -0.01 | -0.04 | 0.06 | 0.03 | -0.06 | -0.12 | 0.03 | 0.03 | 0.05 | 0.00 | -0.04 | -0.07 | 0.04 | 0.00 | 0.09 | 0.03 | -0.03 | -0.03 | 0.02 | 0.02 | 0.04 | 0.01 |

AS, all-cause survival; RS, relative survival; RSMT, restricted mean survival time; CML, chronic myeloid leukemia.

Table B2. Difference in survival proportion at 10 years by cancer site, age group, survival framework, model, and follow-up time used for extrapolation. The observed values were the Kaplan-Meier survival estimates at 10 years. The extrapolated values were retrieved from models fitted to each cohort with 2, 3 and 5 years of follow-up data, and extrapolated to 10 years. Difference (%) was calculated as extrapolated minus observed. Bold numbers are values mentioned in the main texts.

| | Colon | | | | | | Breast | | | | | | Melanoma | | | | | | Prostate | | | | | | CML | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Age group | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | |
| Survival framework | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS |
| Survival proportion at 10 years (%) | 44.32 | | 36.51 | | 18.65 | | 67.42 | | 60.42 | | 28.70 | | 78.79 | | 60.51 | | 28.66 | | 38.65 | | 33.74 | | 13.90 | | 20.42 | | 4.64 | | 1.08 | |
| Extrapolation from 2 years | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -33.80 | -34.00 | -28.11 | -28.72 | -14.45 | -15.22 | -2.21 | -2.87 | -0.24 | -3.27 | 0.62 | -3.48 | -6.76 | -7.06 | -9.20 | -12.00 | -5.98 | -8.81 | 0.49 | -1.03 | 1.02 | -2.17 | 1.41 | -1.45 | -3.80 | -3.93 | 1.44 | 1.04 | -0.86 | -0.89 |
| Weibull | -30.66 | -30.96 | -22.55 | -23.82 | -5.44 | -9.92 | -23.03 | -25.13 | -6.16 | -8.55 | 2.59 | -2.15 | -14.04 | -14.08 | -18.55 | -19.90 | -13.78 | -15.10 | -28.02 | -30.11 | -11.81 | -14.59 | 0.89 | -2.41 | -13.86 | -14.06 | 1.71 | 1.39 | 0.45 | 0.03 |
| Gompertz | -0.99 | -2.75 | 8.77 | 2.13 | **26.68** | 4.30 | **-67.42** | -67.42 | -32.59 | -35.13 | 13.52 | 4.60 | -41.32 | -42.88 | -48.41 | -49.97 | -20.89 | -25.42 | -38.65 | -38.65 | -33.62 | -33.73 | 0.04 | -4.83 | -20.41 | -20.41 | -1.99 | -1.89 | 19.19 | 9.62 |
| Log-logistic | -19.54 | -20.65 | -11.89 | -15.61 | 4.22 | -6.52 | -14.43 | -16.71 | -0.59 | -4.93 | 12.22 | -0.14 | -10.45 | -11.12 | -10.17 | -14.92 | -0.56 | -10.69 | -12.06 | -15.84 | 1.23 | -5.75 | 13.42 | 0.81 | -0.13 | -0.91 | 13.98 | 11.17 | 7.46 | 3.26 |
| Log-normal | -15.85 | -17.09 | -8.73 | -12.82 | 6.01 | -5.37 | -0.52 | -3.16 | 8.87 | 2.81 | 19.80 | 3.31 | -2.13 | -3.45 | 0.48 | -6.50 | 6.68 | -6.15 | 1.56 | -4.21 | 12.46 | 3.43 | 19.78 | 4.23 | 7.89 | 6.74 | 18.17 | 14.97 | 6.93 | 3.28 |
| Generalized gamma | -8.09 | -9.50 | -0.85 | -5.60 | 15.46 | 1.34 | -40.13 | -41.97 | -15.84 | -14.34 | 17.61 | -5.48 | -5.23 | -6.10 | -34.54 | -28.65 | 9.16 | -4.38 | -38.33 | -38.65 | -33.23 | -31.57 | 8.53 | -4.04 | -13.30 | -13.18 | -4.64 | -4.64 | 8.96 | 5.08 |
| Spline hazard | -14.80 | -15.62 | -10.54 | -12.84 | 0.91 | -4.97 | -31.10 | -32.34 | -14.53 | -16.82 | 3.25 | -1.80 | -15.32 | -15.44 | -27.21 | -29.84 | -12.55 | -16.44 | -21.64 | -22.69 | -14.06 | -16.24 | 0.48 | -2.34 | -4.11 | -4.33 | -2.21 | -2.22 | 4.97 | 2.97 |
| Spline odds | -10.14 | -11.45 | -5.43 | -9.31 | 6.27 | -3.66 | -21.35 | -22.86 | -7.90 | -11.93 | 10.49 | -0.36 | -12.12 | -12.76 | -17.85 | -23.01 | -2.10 | -12.34 | -9.26 | -11.67 | -2.83 | -8.37 | 9.99 | 0.12 | 5.07 | 4.43 | 5.71 | 4.35 | 8.92 | 4.59 |
| Spline normal | -9.69 | -10.97 | -5.16 | -8.95 | 6.03 | -3.48 | -12.60 | -13.97 | -1.48 | -6.02 | 13.21 | 1.24 | -7.03 | -7.99 | -11.54 | -16.84 | -0.12 | -9.91 | -4.75 | -7.11 | 1.02 | -4.51 | 10.84 | 1.37 | 5.87 | 5.29 | 4.16 | 3.29 | 7.62 | 4.15 |
| Extrapolation from 3 years | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -30.21 | -30.47 | -24.28 | -25.13 | -12.52 | -13.62 | -4.61 | -5.22 | -1.11 | -3.83 | 0.49 | -3.28 | -7.27 | -7.56 | -9.36 | -11.77 | -5.06 | -7.74 | -2.29 | -3.57 | -0.70 | -3.47 | 1.34 | -1.36 | -4.09 | -4.19 | 1.72 | 1.34 | -0.74 | -0.79 |
| Weibull | -23.64 | -24.14 | -15.47 | -17.40 | -3.31 | -8.11 | -17.14 | -18.07 | -4.90 | -6.96 | 1.38 | -2.36 | -11.22 | -11.34 | -14.09 | -15.24 | -8.42 | -9.88 | -19.67 | -20.71 | -9.17 | -11.14 | 1.00 | -1.78 | -10.10 | -10.18 | 2.11 | 1.82 | 0.67 | 0.21 |
| Gompertz | 0.54 | -1.16 | 9.81 | 3.53 | 18.73 | 2.72 | -45.58 | -46.90 | -12.44 | -12.77 | 3.31 | 0.17 | -16.53 | -16.60 | -20.21 | -19.03 | -5.82 | -7.42 | -37.07 | -37.35 | -23.68 | -24.53 | 0.83 | -1.58 | -14.97 | -14.93 | 0.74 | 0.81 | 10.32 | 6.00 |
| Log-logistic | -15.95 | -17.10 | -8.25 | -12.11 | 4.31 | -5.70 | -11.28 | -12.64 | -0.55 | -4.27 | 9.77 | -0.60 | -8.73 | -9.32 | -8.14 | -12.08 | 1.55 | -7.42 | -7.66 | -10.24 | 1.15 | -4.57 | 11.44 | 0.78 | 1.01 | 0.42 | 12.32 | 9.99 | 6.70 | 3.03 |
| Log-normal | -13.58 | -14.80 | -6.16 | -10.25 | 5.43 | -4.85 | -2.47 | -4.48 | 6.22 | 1.12 | 15.30 | 2.21 | -3.17 | -4.28 | -1.12 | -6.81 | 6.11 | -4.73 | 0.41 | -3.54 | 8.57 | 1.20 | 15.59 | 3.29 | 5.82 | 4.97 | 14.79 | 12.40 | 5.92 | 2.93 |
| Generalized gamma | -7.47 | -8.75 | 0.37 | -4.06 | 10.21 | 0.11 | -13.95 | -13.90 | -3.42 | -4.97 | 6.07 | 1.81 | -5.53 | -6.13 | -7.81 | -9.99 | 4.91 | -2.80 | -11.19 | -11.09 | -8.88 | -9.93 | 3.46 | 0.72 | -5.19 | -5.11 | -0.86 | -1.01 | 5.40 | 3.41 |
| Spline hazard | -10.96 | -11.75 | -2.66 | -5.39 | 0.65 | -3.89 | -9.45 | -10.00 | -0.43 | -2.40 | -1.60 | -4.17 | -6.54 | -6.63 | -8.98 | -10.44 | -2.77 | -4.70 | -11.00 | -11.66 | -6.96 | -8.51 | 1.35 | -0.70 | -4.24 | -4.08 | 1.17 | 0.97 | 1.36 | 0.75 |
| Spline odds | -8.37 | -9.50 | -0.52 | -4.19 | 4.41 | -3.18 | -6.51 | -7.37 | 1.85 | -1.19 | 4.85 | -2.64 | -5.37 | -5.76 | -5.63 | -8.91 | 3.08 | -3.86 | -3.81 | -5.62 | 0.05 | -4.18 | 8.05 | 0.77 | 2.22 | 2.01 | 7.52 | 6.16 | 4.58 | 2.33 |
| Spline normal | -8.30 | -9.40 | -0.54 | -4.12 | 3.91 | -3.13 | -3.63 | -4.58 | 4.00 | 0.40 | 5.94 | -1.41 | -3.45 | -4.10 | -3.36 | -7.19 | 3.66 | -3.18 | -2.13 | -3.83 | 1.44 | -2.57 | 7.65 | 1.30 | 1.75 | 1.63 | 6.16 | 5.24 | 3.33 | 1.82 |
| Extrapolation from 5 years | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -22.72 | -23.08 | -18.36 | -19.49 | -9.30 | -10.85 | -5.08 | -5.57 | -1.42 | -3.61 | 0.72 | -2.32 | -5.98 | -6.06 | -6.05 | -7.97 | -3.21 | -5.71 | -3.54 | -4.56 | -0.59 | -2.83 | 1.26 | -1.06 | -4.41 | -4.52 | 0.89 | 0.62 | -0.61 | -0.69 |
| Weibull | -13.90 | -14.61 | -9.29 | -11.54 | -0.93 | -5.83 | -9.31 | -9.70 | -2.95 | -4.56 | 1.20 | -1.34 | -6.43 | -6.33 | -5.57 | -6.92 | -3.34 | -5.41 | -10.80 | -11.41 | -3.83 | -5.26 | 1.07 | -1.01 | -7.30 | -7.39 | 0.36 | 0.21 | 0.69 | 0.26 |
| Gompertz | 1.20 | -0.08 | 4.71 | 0.99 | 10.34 | 1.60 | -10.81 | -10.94 | -3.63 | -4.23 | 1.45 | 0.42 | -4.39 | -4.07 | -0.63 | -2.07 | 1.15 | -1.60 | -13.45 | -13.55 | -4.57 | -4.86 | 1.11 | -0.10 | -7.09 | -7.16 | -1.58 | -1.56 | 4.47 | 2.98 |
| Log-logistic | -10.79 | -11.90 | -5.66 | -9.17 | 4.10 | -4.61 | -6.69 | -7.41 | -0.34 | -3.09 | 7.15 | -0.26 | -5.36 | -5.55 | -3.09 | -6.01 | 2.58 | -4.51 | -4.30 | -6.06 | 2.20 | -1.90 | 8.60 | 0.69 | 0.11 | -0.34 | 8.27 | 6.69 | 5.67 | 2.65 |
| Log-normal | -9.37 | -10.52 | -4.40 | -8.01 | 4.69 | -4.01 | -2.80 | -3.94 | 3.37 | -0.24 | 10.33 | 1.54 | -2.91 | -3.45 | 0.01 | -4.06 | 4.90 | -3.28 | -0.60 | -3.03 | 5.98 | 0.95 | 10.74 | 2.33 | 2.50 | 1.83 | 9.13 | 7.76 | 4.71 | 2.45 |
| Generalized gamma | -4.53 | -5.65 | -0.41 | -3.65 | 6.33 | -0.20 | -5.35 | -5.64 | -1.25 | -2.67 | 1.59 | 0.62 | -3.29 | -3.09 | -0.79 | -3.34 | 3.49 | -1.66 | -4.18 | -4.58 | -0.43 | -1.99 | 1.77 | 0.33 | -3.81 | -3.87 | -1.91 | -2.01 | 2.94 | 2.03 |
| Spline hazard | -3.93 | -4.53 | -2.37 | -4.13 | 1.92 | -1.55 | -4.64 | **-4.88** | -1.72 | -2.81 | 0.10 | -0.82 | -3.31 | -3.00 | 1.03 | -0.48 | 0.35 | -1.82 | -3.00 | -3.48 | -0.08 | -1.08 | 1.28 | -0.01 | -3.19 | -3.33 | -1.46 | -1.53 | 0.36 | 0.09 |
| Spline odds | -3.40 | -4.15 | -1.34 | -3.65 | 3.62 | -1.42 | -3.67 | -4.08 | -0.44 | -2.19 | 3.24 | -0.37 | -2.94 | -2.78 | 1.64 | -0.40 | 2.86 | -1.65 | -0.68 | -1.73 | 2.51 | 0.14 | **4.61** | 0.63 | -0.43 | -0.70 | 1.38 | 0.91 | 1.82 | 0.86 |
| Spline normal | -3.43 | -4.16 | -1.43 | -3.66 | 3.22 | -1.42 | -2.99 | -3.44 | 0.33 | -1.60 | 3.16 | -0.08 | -2.44 | -2.40 | 1.97 | -0.32 | 2.73 | -1.52 | -0.63 | -1.60 | 2.55 | 0.38 | 3.83 | 0.70 | -1.14 | -1.36 | 0.24 | -0.01 | 1.13 | 0.54 |

AS, all-cause survival; RS, relative survival; RSMT, restricted mean survival time; CML, chronic myeloid leukemia.

Table B3. Difference in life expectancy (LE) or 40-year restricted mean survival time (RMST) by cancer site, age group, model, and follow-up time used for extrapolation. The LE or 40-year observed RMST (years) was the area under the Kaplan-Meier survival curve. The extrapolated values were retrieved from models fitted to each cohort with 2, 3, 5, and 10 years of follow-up data, and extrapolated to lifetime or 40 years. Difference (years) was calculated as extrapolated minus observed. Bold numbers are values mentioned in the main texts.

| | Colon | | | | | | Breast | | | | | | Melanoma | | | | | | Prostate | | | | | | CML | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Age group | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | |
| Survival framework | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS |
| LE or 40-year observed RMST (years) | 14.38 | | 9.16 | | 5.04 | | 21.63 | | 14.52 | | 7.39 | | 27.26 | | 14.67 | | 7.29 | | 10.59 | | 8.49 | | 5.02 | | 8.16 | | 3.50 | | 1.90 | |
| **Extrapolation from 2 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -9.93 | -9.97 | -5.12 | -5.22 | -1.88 | -1.97 | -2.47 | -3.95 | 2.59 | -1.32 | 0.70 | -0.53 | -4.98 | -6.54 | -0.72 | -3.42 | -0.57 | -1.27 | -0.18 | -1.09 | 0.83 | -0.50 | 0.31 | -0.17 | -2.59 | -2.63 | 0.07 | 0.02 | -0.27 | -0.27 |
| Weibull | -9.45 | -9.52 | -4.25 | -4.55 | -0.42 | -1.29 | -11.06 | -11.63 | -0.26 | -2.64 | 1.19 | -0.35 | -9.61 | -10.38 | -4.05 | -5.06 | -1.86 | -2.05 | -5.28 | -5.50 | -1.84 | -2.30 | 0.22 | -0.28 | -3.99 | -4.01 | 0.11 | 0.06 | 0.00 | -0.05 |
| Gompertz | 3.83 | -0.36 | 9.78 | 0.51 | 13.72 | 0.61 | -16.73 | -16.84 | -7.07 | -7.28 | 7.81 | 0.66 | -18.81 | -18.95 | -8.64 | -8.69 | -2.64 | -2.95 | -7.14 | -7.20 | -4.33 | -4.47 | 0.06 | -0.55 | -4.94 | -4.95 | -0.34 | -0.32 | 7.05 | 1.26 |
| Log-logistic | -5.91 | -6.93 | -0.71 | -3.12 | 2.95 | -0.86 | -6.09 | -7.81 | 4.27 | -1.39 | 5.80 | -0.05 | -5.64 | -7.62 | 0.84 | -3.73 | 1.96 | -1.50 | -1.93 | -3.32 | 2.51 | -0.85 | 4.12 | 0.11 | -0.99 | -1.44 | 3.19 | 1.59 | 1.65 | 0.39 |
| Log-normal | -4.96 | -6.16 | 0.10 | -2.66 | 3.34 | -0.71 | 0.73 | -2.54 | 9.62 | 0.58 | 8.84 | 0.43 | -0.03 | -3.33 | 5.85 | -1.90 | 4.05 | -0.92 | 1.82 | -1.14 | 6.41 | 0.66 | 6.02 | 0.54 | 1.00 | 0.24 | 4.18 | 2.20 | 1.37 | 0.41 |
| Generalized gamma | -1.60 | -3.74 | 3.53 | -1.24 | 7.43 | 0.24 | -14.23 | -14.37 | -5.21 | -4.76 | 7.70 | -0.92 | -2.41 | -4.96 | -7.61 | -6.97 | 5.02 | -0.68 | -6.32 | -6.68 | -3.92 | -3.74 | 1.95 | -0.47 | -3.92 | -3.91 | -1.02 | -0.97 | 1.98 | 0.68 |
| Spline hazard | -5.41 | -6.21 | -1.26 | -2.77 | 1.11 | -0.64 | -12.70 | -12.93 | -3.27 | -4.44 | 1.36 | -0.31 | -10.32 | -11.03 | -6.11 | -6.73 | -1.69 | -2.21 | -4.54 | -4.68 | -2.17 | -2.50 | 0.16 | -0.28 | -2.62 | -2.67 | -0.44 | -0.43 | 0.79 | 0.40 |
| Spline odds | -2.70 | -4.49 | 1.48 | -1.99 | 3.62 | -0.46 | -8.41 | -9.51 | 1.21 | -2.90 | 5.17 | -0.08 | -6.51 | -8.35 | -1.87 | -5.21 | 1.51 | -1.72 | -1.22 | -2.56 | 1.33 | -1.26 | 3.11 | 0.01 | 0.45 | -0.15 | 1.05 | 0.46 | 2.07 | 0.60 |
| Spline normal | -2.67 | -4.42 | 1.40 | -1.94 | 3.32 | -0.44 | -5.01 | -6.65 | 4.31 | -1.50 | 6.08 | 0.14 | -2.92 | -5.53 | 0.43 | -4.04 | 1.79 | -1.42 | -0.24 | -1.76 | 2.23 | -0.69 | 3.06 | 0.16 | 0.40 | -0.13 | 0.56 | 0.28 | 1.56 | 0.54 |
| **Extrapolation from 3 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -9.27 | -9.33 | -4.40 | -4.56 | -1.45 | -1.59 | -3.47 | -4.79 | 2.26 | -1.44 | 0.68 | -0.50 | -5.23 | -6.75 | -0.78 | -3.38 | -0.39 | -1.11 | -0.88 | -1.62 | 0.43 | -0.72 | 0.30 | -0.15 | -2.64 | -2.68 | 0.13 | 0.08 | -0.14 | -0.15 |
| Weibull | -8.06 | -8.28 | -2.75 | -3.50 | 0.05 | -0.99 | -9.48 | -9.97 | 0.26 | -2.27 | 0.90 | -0.38 | -8.09 | -9.07 | -2.73 | -4.15 | -1.00 | -1.37 | -4.26 | -4.40 | -1.41 | -1.84 | 0.24 | -0.20 | -3.46 | -3.47 | 0.18 | 0.14 | 0.06 | 0.00 |
| Gompertz | 4.43 | 0.11 | 10.17 | 0.77 | 10.79 | 0.36 | -14.46 | -14.54 | -4.27 | -4.40 | 1.89 | 0.02 | -14.21 | -14.39 | -5.59 | -5.41 | -0.59 | -1.06 | -5.78 | -5.81 | -3.13 | -3.18 | 0.20 | -0.18 | -3.94 | -3.93 | 0.01 | 0.02 | 3.71 | 0.71 |
| Log-logistic | -4.81 | -6.05 | 0.43 | -2.46 | 2.98 | -0.72 | -4.96 | -6.59 | 4.30 | -1.25 | 4.98 | -0.11 | -4.77 | -6.85 | 1.58 | -3.17 | 2.56 | -1.04 | -0.84 | -2.29 | 2.49 | -0.66 | 3.54 | 0.10 | -0.69 | -1.13 | 2.72 | 1.38 | 1.42 | 0.34 |
| Log-normal | -4.21 | -5.55 | 0.96 | -2.16 | 3.15 | -0.62 | -0.20 | -3.05 | 8.33 | 0.19 | 7.08 | 0.26 | -0.60 | -3.70 | 5.14 | -1.97 | 3.85 | -0.71 | 1.43 | -0.99 | 4.97 | 0.26 | 4.63 | 0.40 | 0.38 | -0.23 | 3.17 | 1.71 | 1.09 | 0.33 |
| Generalized gamma | -1.33 | -3.50 | 4.05 | -0.93 | 5.24 | 0.04 | -7.76 | -8.05 | 1.33 | -1.62 | 2.64 | 0.21 | -2.60 | -4.96 | 0.88 | -2.76 | 3.32 | -0.46 | -2.67 | -2.81 | -1.35 | -1.66 | 0.72 | 0.09 | -2.71 | -2.72 | -0.16 | -0.16 | 0.95 | 0.40 |
| Spline hazard | -3.91 | -5.05 | 1.74 | -1.33 | 1.04 | -0.49 | -6.18 | **-7.00** | 2.69 | -1.03 | 0.18 | -0.63 | -4.63 | -6.13 | -0.57 | -3.05 | 0.13 | -0.72 | -2.94 | -3.15 | -1.00 | -1.47 | 0.30 | -0.08 | -2.64 | -2.63 | 0.06 | 0.04 | 0.15 | 0.07 |
| Spline odds | -1.98 | -3.90 | 3.39 | -1.01 | 2.98 | -0.39 | -2.73 | -4.58 | 5.55 | -0.48 | 3.28 | -0.38 | -2.63 | -4.93 | 2.71 | -2.49 | 3.03 | -0.60 | 0.28 | -1.36 | 2.15 | -0.60 | 2.56 | 0.10 | -0.36 | -0.76 | 1.49 | 0.78 | 0.88 | 0.26 |
| Spline normal | -2.09 | -3.93 | 3.27 | -1.00 | 2.58 | -0.39 | -0.81 | -3.06 | 7.09 | 0.02 | 3.38 | -0.22 | -0.77 | -3.59 | 4.00 | -2.04 | 2.97 | -0.51 | 0.56 | -1.05 | 2.33 | -0.36 | 2.15 | 0.15 | -0.80 | -1.07 | 0.99 | 0.61 | 0.51 | 0.19 |
| **Extrapolation from 5 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -7.86 | -7.99 | -3.31 | -3.59 | -0.82 | -1.02 | -3.67 | -4.91 | 2.14 | -1.39 | 0.73 | -0.35 | -4.60 | -6.12 | 0.34 | -2.60 | -0.01 | -0.79 | -1.18 | -1.82 | 0.45 | -0.62 | 0.28 | -0.10 | -2.70 | -2.73 | -0.04 | -0.07 | -0.04 | -0.05 |
| Weibull | -5.47 | -6.11 | -1.10 | -2.47 | 0.61 | -0.63 | -6.52 | -7.20 | 1.14 | -1.68 | 0.85 | -0.23 | -5.04 | -6.34 | 0.63 | -2.32 | -0.04 | -0.76 | -2.94 | -3.12 | -0.39 | -0.98 | 0.25 | -0.10 | -3.08 | -3.09 | -0.09 | -0.10 | 0.06 | 0.02 |
| Gompertz | 4.68 | 0.41 | 8.23 | 0.32 | 7.58 | 0.20 | -9.19 | **-9.28** | -0.28 | -1.67 | 1.04 | 0.06 | -1.84 | -3.50 | 6.43 | -0.62 | 2.11 | -0.25 | -3.70 | -3.72 | -0.91 | -1.03 | 0.25 | 0.00 | -3.13 | -3.14 | -0.25 | -0.24 | 1.13 | 0.26 |
| Log-logistic | -3.11 | -4.69 | 1.28 | -1.91 | 2.92 | -0.54 | -3.06 | -4.79 | 4.38 | -0.98 | 4.12 | -0.06 | -2.90 | -5.06 | 3.65 | -1.91 | 2.86 | -0.63 | 0.07 | -1.48 | 2.80 | -0.24 | 2.74 | 0.09 | -0.92 | -1.31 | 1.65 | 0.79 | 1.13 | 0.26 |
| Log-normal | -2.73 | -4.37 | 1.58 | -1.72 | 2.90 | -0.47 | -0.36 | -2.83 | 6.94 | -0.13 | 5.23 | 0.16 | -0.45 | -3.31 | 5.66 | -1.38 | 3.45 | -0.50 | 1.10 | -0.87 | 4.05 | 0.22 | 3.11 | 0.25 | -0.57 | -1.01 | 1.60 | 0.85 | 0.76 | 0.22 |
| Generalized gamma | -0.04 | -2.50 | 3.71 | -0.85 | 3.65 | -0.01 | -2.65 | -4.03 | 2.81 | -0.94 | 1.00 | 0.04 | -0.85 | -3.07 | 5.00 | -1.18 | 2.76 | -0.30 | -0.61 | -1.34 | 0.90 | -0.35 | 0.38 | 0.04 | -2.44 | -2.49 | -0.27 | -0.27 | 0.37 | 0.17 |
| Spline hazard | -0.42 | -2.44 | 1.92 | -1.06 | 1.42 | -0.19 | -3.21 | -4.39 | 1.96 | -1.13 | 0.54 | -0.17 | -1.84 | -3.57 | 5.46 | -0.53 | 0.95 | -0.34 | -0.83 | -1.43 | 0.68 | -0.28 | 0.28 | 0.00 | -2.45 | -2.50 | -0.24 | -0.24 | 0.03 | 0.00 |
| Spline odds | 0.31 | -2.10 | 3.06 | -0.90 | 2.68 | -0.17 | -1.16 | -3.08 | 4.32 | -0.73 | 2.69 | -0.08 | -0.84 | -3.10 | 6.68 | -0.48 | 2.92 | -0.31 | 1.38 | -0.45 | 2.92 | 0.10 | 1.63 | 0.08 | -1.07 | -1.40 | 0.20 | 0.03 | 0.27 | 0.07 |
| Spline normal | 0.23 | -2.12 | 2.89 | -0.91 | 2.32 | -0.17 | -0.44 | -2.53 | 4.99 | -0.49 | 2.35 | -0.04 | -0.04 | -2.60 | 7.04 | -0.44 | 2.59 | -0.29 | 1.15 | -0.48 | 2.66 | 0.13 | 1.15 | 0.08 | -1.56 | -1.77 | -0.04 | -0.09 | 0.12 | 0.04 |
| **Extrapolation from 10 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | **-4.53** | **-4.95** | -1.06 | -1.73 | -0.06 | -0.30 | -1.75 | -3.17 | 2.63 | -0.75 | 0.63 | -0.14 | -1.72 | -3.47 | 2.21 | -1.20 | 0.42 | -0.32 | -0.47 | -1.10 | 0.59 | -0.29 | 0.17 | -0.03 | -2.24 | -2.27 | -0.13 | -0.14 | 0.00 | -0.01 |
| Weibull | -1.23 | -2.82 | 1.30 | -1.05 | 0.72 | -0.30 | -1.40 | -2.85 | 2.60 | -0.60 | 0.62 | -0.09 | -0.27 | -2.35 | 3.32 | -0.84 | 0.57 | -0.28 | -0.78 | -1.24 | 0.39 | -0.29 | 0.14 | -0.03 | -2.24 | -2.26 | -0.14 | -0.15 | 0.01 | -0.02 |
| Gompertz | 4.14 | 0.49 | 6.09 | 0.22 | 2.97 | 0.15 | 2.12 | -0.24 | 3.44 | 0.01 | 0.48 | 0.03 | 3.24 | 0.01 | **6.75** | -0.06 | 1.41 | -0.10 | 0.26 | -0.44 | 0.53 | -0.04 | 0.07 | 0.00 | -1.50 | -1.60 | -0.16 | -0.17 | 0.11 | 0.01 |
| Log-logistic | -0.61 | -2.67 | 2.34 | -1.11 | 2.29 | -0.37 | 0.02 | -2.03 | 4.54 | -0.36 | 2.72 | -0.03 | 0.36 | -2.09 | 4.87 | -0.80 | 2.38 | -0.31 | 1.06 | -0.52 | 2.37 | -0.02 | 1.70 | 0.05 | -0.92 | -1.25 | 1.06 | 0.47 | 0.87 | 0.19 |
| Log-normal | -0.25 | -2.38 | 2.56 | -0.94 | 2.07 | -0.31 | 0.99 | -1.36 | 5.62 | -0.05 | 2.93 | 0.07 | 1.16 | -1.63 | 5.69 | -0.68 | 2.42 | -0.29 | 1.36 | -0.29 | 2.69 | 0.16 | 1.54 | 0.13 | -0.87 | -1.18 | 0.77 | 0.37 | 0.46 | 0.12 |
| Generalized gamma | 1.75 | -1.06 | 3.91 | -0.37 | 1.68 | 0.02 | 1.20 | -0.93 | 3.74 | -0.18 | 0.48 | -0.01 | 1.79 | -0.99 | 5.45 | -0.44 | 1.50 | -0.18 | 0.97 | -0.17 | 1.03 | -0.02 | 0.11 | 0.00 | -1.68 | -1.76 | -0.16 | -0.16 | 0.05 | 0.01 |
| Spline hazard | 2.50 | -0.13 | **3.37** | **-0.08** | 0.66 | -0.02 | 1.55 | -0.48 | 3.22 | -0.06 | 0.43 | -0.02 | 1.91 | -0.50 | 4.15 | -0.16 | 0.65 | -0.12 | 0.30 | -0.40 | 0.58 | -0.07 | 0.06 | -0.02 | -1.55 | **-1.62** | -0.12 | -0.13 | 0.00 | -0.02 |
| Spline odds | 2.58 | -0.13 | **3.74** | **-0.08** | 1.28 | -0.03 | 1.99 | -0.29 | 4.32 | 0.01 | 1.32 | -0.01 | 2.07 | -0.47 | 5.02 | -0.16 | 1.53 | -0.12 | 1.35 | -0.06 | 1.63 | **0.05** | 0.45 | 0.01 | -0.97 | -1.20 | -0.03 | -0.09 | 0.03 | -0.01 |
| Spline normal | 2.56 | -0.14 | 3.65 | **-0.09** | 1.02 | -0.03 | 2.10 | -0.22 | 4.35 | 0.04 | 0.98 | -0.01 | 2.20 | -0.43 | 5.07 | -0.16 | 1.22 | -0.12 | 1.09 | -0.11 | 1.29 | 0.04 | 0.24 | 0.00 | -1.21 | -1.37 | -0.09 | -0.12 | 0.01 | -0.02 |

AS, all-cause survival; RS, relative survival; RSMT, restricted mean survival time; CML, chronic myeloid leukemia.

Table B4. Difference in survival proportion at 40 years by cancer site, age group, model, and follow-up time used for extrapolation. The observed values were the Kaplan-Meier survival estimates at lifetime or 40 years. The extrapolated values were retrieved from models fitted to each cohort with 2, 3, 5, and 10 years of follow-up data, and extrapolated to lifetime or 40 years. Difference (%) was calculated as extrapolated minus observed. Bold numbers are values mentioned in the main texts.

| | Colon | | | | | | Breast | | | | | | Melanoma | | | | | | Prostate | | | | | | CML | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Age group | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | | 18-59 | | 60-69 | | 70-99 | |
| Survival framework | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS | AS | RS |
| Survival proportion at lifetime or 40 years (%) | 9.19 | | 0.00 | | 0.00 | | 19.31 | | 0.46 | | 0.02 | | 37.95 | | 0.93 | | 0.06 | | 1.62 | | 0.21 | | 0.02 | | 6.73 | | 0.00 | | 0.00 | |
| **Extrapolation from 2 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -9.18 | -9.18 | 0.00 | 0.00 | 0.00 | 0.00 | -1.22 | -11.20 | 12.65 | -0.34 | 0.72 | -0.01 | -11.03 | -22.84 | 6.00 | -0.88 | 0.20 | -0.06 | 0.73 | -1.41 | 1.25 | -0.21 | 0.04 | -0.02 | -6.65 | -6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| Weibull | -9.11 | -9.17 | 0.14 | 0.00 | 0.33 | 0.00 | -18.94 | -19.22 | 5.25 | -0.41 | 1.16 | -0.01 | -26.98 | -31.67 | 0.37 | -0.92 | -0.05 | -0.06 | -1.62 | -1.62 | -0.18 | -0.21 | 0.03 | -0.02 | -6.73 | -6.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gompertz | 33.10 | 1.50 | 44.90 | 0.16 | 45.29 | 0.00 | -19.31 | -19.31 | -0.46 | -0.46 | 25.53 | -0.01 | -37.95 | -37.95 | -0.93 | -0.93 | -0.06 | -0.06 | -1.62 | -1.62 | -0.21 | -0.21 | -0.01 | -0.02 | -6.73 | -6.73 | 0.00 | 0.00 | 20.17 | 0.00 |
| Log-logistic | -1.96 | -7.35 | 7.74 | 0.03 | 8.21 | 0.00 | -5.76 | -14.29 | 22.99 | -0.29 | 14.31 | -0.01 | -8.69 | -23.02 | 15.21 | -0.86 | 6.52 | -0.06 | 2.17 | -1.41 | 8.15 | -0.20 | 7.54 | -0.02 | -3.01 | -5.02 | 4.67 | 0.02 | 2.22 | 0.00 |
| Log-normal | -0.65 | -6.99 | 8.83 | 0.03 | 8.42 | 0.00 | 15.65 | -5.92 | 42.22 | -0.15 | 22.72 | -0.01 | 13.66 | -11.86 | 30.88 | -0.79 | 10.30 | -0.06 | 8.46 | -1.10 | 17.28 | -0.19 | 11.22 | -0.02 | -0.30 | -3.79 | 5.87 | 0.02 | 1.26 | 0.00 |
| Generalized gamma | 9.72 | -4.26 | 19.52 | 0.08 | 21.25 | 0.00 | -19.31 | -19.31 | -0.46 | -0.46 | 18.74 | -0.02 | 3.05 | -16.62 | -0.93 | -0.93 | 12.95 | -0.06 | -1.62 | -1.62 | -0.21 | -0.21 | 1.49 | -0.02 | -6.73 | -6.73 | 0.00 | 0.00 | 2.45 | 0.00 |
| Spline hazard | -3.93 | -7.71 | 3.71 | 0.02 | 2.04 | 0.00 | -19.28 | -19.30 | 0.66 | -0.45 | 1.34 | -0.01 | -28.90 | -32.85 | -0.81 | -0.93 | -0.05 | -0.06 | -1.62 | -1.62 | -0.20 | -0.21 | 0.02 | -0.02 | -6.66 | -6.69 | 0.19 | 0.00 | 0.00 | 0.00 |
| Spline odds | 5.83 | -5.30 | 12.97 | 0.05 | 9.69 | 0.00 | -10.73 | -16.03 | 14.53 | -0.36 | 12.73 | -0.01 | -11.55 | -24.53 | 8.84 | -0.89 | 5.66 | -0.06 | 3.26 | -1.31 | 5.90 | -0.20 | 5.54 | -0.02 | -0.44 | -3.74 | 1.40 | 0.00 | 2.98 | 0.00 |
| Spline normal | 5.37 | -5.37 | 12.15 | 0.05 | 8.28 | 0.00 | -2.70 | -12.65 | 23.79 | -0.28 | 14.58 | -0.01 | 2.50 | -17.28 | 14.07 | -0.86 | 5.26 | -0.06 | 4.09 | -1.23 | 6.77 | -0.20 | 4.53 | -0.02 | -1.44 | -4.17 | 0.38 | 0.00 | 1.57 | 0.00 |
| **Extrapolation from 3 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -9.15 | -9.18 | 0.02 | 0.00 | 0.00 | 0.00 | -3.74 | -12.32 | 11.91 | -0.34 | 0.71 | -0.01 | -11.79 | -23.25 | 5.91 | -0.88 | 0.25 | -0.06 | 0.13 | -1.46 | 0.98 | -0.21 | 0.04 | -0.02 | -6.66 | -6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| Weibull | -8.56 | -9.01 | 0.97 | 0.01 | 0.60 | 0.00 | -17.90 | -18.77 | 6.33 | -0.39 | 0.91 | -0.01 | -22.56 | -29.14 | 1.90 | -0.91 | 0.02 | -0.06 | -1.62 | -1.62 | -0.14 | -0.21 | 0.03 | -0.02 | -6.73 | -6.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gompertz | 34.85 | 1.98 | **46.00** | 0.17 | 37.13 | 0.00 | -19.31 | -19.31 | -0.46 | -0.46 | 3.43 | -0.01 | -37.95 | -37.95 | -0.93 | -0.93 | 0.09 | -0.06 | -1.62 | -1.62 | -0.21 | -0.21 | 0.01 | -0.02 | -6.73 | -6.73 | 0.00 | 0.00 | 10.83 | 0.00 |
| Log-logistic | 0.14 | -6.80 | 10.00 | 0.04 | 8.27 | 0.00 | -3.11 | -12.90 | 23.08 | -0.28 | 12.46 | -0.01 | -5.92 | -21.44 | 17.04 | -0.84 | 7.57 | -0.06 | 3.69 | -1.28 | 8.10 | -0.20 | 6.51 | -0.02 | -2.60 | -4.78 | 3.94 | 0.01 | 1.92 | 0.00 |
| Log-normal | 0.95 | -6.55 | 10.68 | 0.04 | 8.02 | 0.00 | 12.62 | -6.79 | 37.86 | -0.18 | 17.98 | -0.01 | 11.59 | -12.72 | 28.66 | -0.79 | 9.88 | -0.06 | 7.64 | -1.06 | 13.67 | -0.19 | 8.25 | -0.02 | -1.40 | -4.25 | 4.13 | 0.02 | 0.97 | 0.00 |
| Generalized gamma | 10.55 | -3.99 | 21.12 | 0.09 | 14.70 | 0.00 | -14.40 | -16.60 | 9.82 | -0.34 | 4.23 | -0.01 | 2.26 | -16.58 | 12.43 | -0.83 | 8.29 | -0.06 | -1.01 | -1.53 | -0.12 | -0.21 | 0.24 | -0.02 | -6.58 | -6.64 | 0.00 | 0.00 | 0.75 | 0.00 |
| Spline hazard | -0.08 | -6.61 | 11.26 | 0.06 | 1.91 | 0.00 | -11.83 | -15.95 | 13.27 | -0.31 | 0.35 | -0.01 | -9.34 | -21.50 | 6.44 | -0.86 | 0.61 | -0.06 | -1.48 | -1.61 | -0.03 | -0.21 | 0.04 | -0.02 | -6.66 | -6.69 | 0.00 | 0.00 | 0.00 | 0.00 |
| Spline odds | 7.90 | -4.68 | 18.36 | 0.08 | 8.12 | 0.00 | 3.46 | -9.82 | 27.23 | -0.23 | 8.30 | -0.01 | 2.23 | -16.65 | 20.43 | -0.82 | 8.62 | -0.06 | 5.89 | -1.09 | 7.37 | -0.20 | 4.52 | -0.02 | -1.98 | -4.39 | 1.87 | 0.01 | 0.98 | 0.00 |
| Spline normal | 7.15 | -4.82 | 17.60 | 0.08 | 6.47 | 0.00 | 10.47 | -6.78 | 33.25 | -0.19 | 7.69 | -0.01 | 10.89 | -12.41 | 24.73 | -0.79 | 7.64 | -0.06 | 5.62 | -1.07 | 6.88 | -0.20 | 2.91 | -0.02 | -3.66 | -5.16 | 0.66 | 0.00 | 0.26 | 0.00 |
| **Extrapolation from 5 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -8.97 | -9.12 | 0.11 | 0.00 | 0.01 | 0.00 | -4.20 | -12.47 | 11.66 | -0.34 | 0.73 | -0.01 | -9.85 | -21.98 | 7.87 | -0.86 | 0.36 | -0.06 | -0.10 | -1.48 | 1.00 | -0.21 | 0.04 | -0.02 | -6.67 | -6.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| Weibull | -5.37 | -8.10 | 3.00 | 0.02 | 1.07 | 0.00 | -13.24 | -16.53 | 8.41 | -0.36 | 0.87 | -0.01 | -11.81 | -22.65 | 8.76 | -0.84 | 0.34 | -0.06 | -1.54 | -1.61 | 0.16 | -0.21 | 0.03 | -0.02 | -6.72 | -6.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gompertz | 35.59 | 2.29 | 40.30 | 0.16 | 27.73 | 0.00 | -19.27 | -19.28 | 2.60 | -0.37 | 1.34 | -0.01 | 6.50 | -11.33 | 37.57 | -0.69 | 6.35 | -0.06 | -1.62 | -1.62 | -0.20 | -0.21 | 0.02 | -0.02 | -6.73 | -6.73 | 0.00 | 0.00 | 4.14 | 0.00 |
| Log-logistic | 3.87 | -5.78 | 11.85 | 0.05 | 8.13 | 0.00 | 1.98 | -10.41 | 23.34 | -0.27 | 10.55 | -0.01 | 0.63 | -17.37 | 22.75 | -0.80 | 8.15 | -0.06 | 5.24 | -1.14 | 8.71 | -0.20 | 5.10 | -0.02 | -2.94 | -4.93 | 2.38 | 0.01 | 1.54 | 0.00 |
| Log-normal | 4.37 | -5.61 | 12.09 | 0.05 | 7.52 | 0.00 | 12.09 | -6.41 | 33.20 | -0.20 | 13.27 | -0.01 | 12.15 | -11.79 | 30.31 | -0.76 | 9.00 | -0.06 | 6.95 | -1.04 | 11.44 | -0.19 | 5.33 | -0.02 | -2.97 | -4.98 | 1.89 | 0.01 | 0.67 | 0.00 |
| Generalized gamma | 14.64 | -2.84 | 20.04 | 0.09 | 10.03 | 0.00 | 1.94 | -9.39 | 15.06 | -0.28 | 1.10 | -0.01 | 10.09 | -11.06 | 27.39 | -0.75 | 6.77 | -0.06 | 2.05 | -1.22 | 2.20 | -0.20 | 0.08 | -0.02 | -6.42 | -6.56 | 0.00 | 0.00 | 0.15 | 0.00 |
| Spline hazard | 11.63 | -3.21 | 11.94 | 0.07 | 2.60 | 0.00 | -2.51 | -11.05 | 11.05 | -0.32 | 0.55 | -0.01 | 3.23 | -13.69 | 27.33 | -0.71 | 1.50 | -0.06 | 0.48 | -1.39 | 1.33 | -0.20 | 0.04 | -0.02 | -6.56 | -6.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| Spline odds | 15.46 | -2.42 | 17.36 | 0.08 | 7.32 | 0.00 | 8.84 | -7.06 | 23.11 | -0.25 | 6.81 | -0.01 | 9.73 | -11.53 | 34.39 | -0.71 | 8.25 | -0.06 | 8.58 | -0.82 | 9.02 | -0.19 | 2.79 | -0.02 | -3.25 | -5.03 | 0.32 | 0.00 | 0.21 | 0.00 |
| Spline normal | 14.98 | -2.50 | 16.42 | 0.08 | 5.76 | 0.00 | 11.83 | -5.71 | 25.53 | -0.23 | 5.14 | -0.01 | 14.01 | -9.66 | 36.03 | -0.70 | 6.61 | -0.06 | 7.15 | -0.89 | 7.53 | -0.19 | 1.32 | -0.02 | -4.86 | -5.79 | 0.03 | 0.00 | 0.02 | 0.00 |
| **Extrapolation from 10 years** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exponential | -7.33 | -8.61 | 0.74 | 0.01 | 0.03 | 0.00 | 0.69 | -10.10 | 12.73 | -0.31 | 0.69 | -0.01 | -0.27 | **-16.16** | 11.68 | -0.82 | 0.51 | -0.06 | 0.47 | -1.41 | 1.09 | -0.21 | 0.03 | -0.02 | -6.61 | -6.67 | 0.00 | 0.00 | 0.00 | 0.00 |
| Weibull | 4.68 | -5.26 | 7.83 | 0.04 | 1.18 | 0.00 | 2.51 | -9.07 | 12.62 | -0.29 | 0.68 | -0.01 | 8.70 | -11.15 | 16.93 | -0.77 | 0.75 | -0.06 | -0.23 | -1.46 | 0.70 | -0.21 | 0.01 | -0.02 | -6.61 | -6.66 | 0.00 | 0.00 | 0.00 | 0.00 |
| Gompertz | 33.86 | 2.37 | 33.43 | 0.15 | 12.43 | 0.00 | 25.25 | 1.11 | 17.40 | -0.16 | 0.41 | -0.01 | 32.55 | -0.40 | 38.74 | -0.66 | 3.74 | -0.06 | 3.19 | -0.94 | 0.93 | -0.20 | -0.01 | -0.02 | -4.71 | -5.55 | 0.00 | 0.00 | 0.32 | 0.00 |
| Log-logistic | 10.26 | -3.97 | 14.39 | 0.06 | 6.83 | 0.00 | 12.05 | -5.56 | 23.80 | -0.23 | 7.48 | -0.01 | 13.64 | -9.58 | 26.57 | -0.75 | 7.13 | -0.06 | 7.24 | -0.92 | 7.77 | -0.20 | 3.32 | -0.02 | -2.94 | -4.87 | 1.59 | 0.01 | 1.21 | 0.00 |
| Log-normal | 10.88 | -3.77 | 14.50 | 0.07 | 5.86 | 0.00 | 16.82 | -3.61 | 28.73 | -0.19 | 7.93 | -0.01 | 18.49 | -7.53 | 30.39 | -0.73 | 6.80 | -0.06 | 7.50 | -0.88 | 8.29 | -0.19 | 2.75 | -0.02 | -3.44 | -5.13 | 0.99 | 0.00 | 0.43 | 0.00 |
| Generalized gamma | 20.47 | -1.16 | 20.68 | 0.10 | 4.47 | 0.00 | 18.04 | -2.18 | 18.69 | -0.21 | 0.43 | -0.01 | 22.38 | -4.87 | 29.08 | -0.71 | 3.47 | -0.06 | 5.91 | -0.80 | 2.39 | -0.20 | 0.00 | -0.02 | -5.60 | -6.09 | 0.00 | 0.00 | 0.01 | 0.00 |
| Spline hazard | 24.16 | 0.84 | 17.35 | 0.12 | 0.97 | 0.00 | 18.84 | -1.21 | 15.48 | -0.20 | 0.41 | -0.01 | 22.34 | -3.19 | 21.24 | -0.68 | 0.90 | -0.06 | 2.69 | -1.06 | 1.06 | -0.20 | -0.01 | -0.02 | -5.50 | -5.99 | 0.00 | 0.00 | 0.00 | 0.00 |
| Spline odds | 24.75 | 0.85 | 19.74 | 0.12 | 3.43 | 0.00 | 22.20 | -0.29 | 22.79 | -0.18 | 3.38 | -0.01 | 23.65 | -3.01 | 27.16 | -0.68 | 4.35 | -0.06 | 8.05 | -0.70 | 5.33 | -0.19 | 0.69 | -0.02 | -3.05 | -4.78 | 0.13 | 0.00 | 0.02 | 0.00 |
| Spline normal | 24.63 | 0.83 | 19.15 | 0.12 | 2.31 | 0.00 | 22.85 | -0.01 | 22.63 | -0.18 | 1.99 | -0.01 | 24.57 | -2.82 | 27.27 | -0.68 | 2.91 | -0.06 | 6.54 | -0.78 | 3.70 | -0.20 | 0.19 | -0.02 | -4.16 | -5.31 | 0.02 | 0.00 | 0.00 | 0 |

AS, all-cause survival; RS, relative survival; RSMT, restricted mean survival time; ; CML, chronic myeloid leukemia.