# eTable 3 The Goodness-of-Fit Results for Different Disturbutions for different PD-1 inhibitors and chemotherapy

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| OS | | | | | | | | | | | | | | | |
| Disturbution | AIC-BIC | | | | | | | | | | | | | | |
| che | che | cam+che | cam+che | niv+che | niv+che | tori+che | tori+che | pemb+che | pemb+che | tisle+che | tisle+che | | sinti+che | sinti+che |
| Exponential | 9579.2 | 9584.7 | 1110.2 | 1113.9 | 1662.1 | 1665.8 | 633.3 | 636.9 | 2038.0 | 2041.9 | 1676.4 | 1680.2 | | 1031.5 | 1035.3 |
| LogNormal | 9417.0 | 9428.1 | 1076.7 | 1084.1 | 1643.4 | 1650.9 | 614.9 | 622.0 | 1996.2 | 2004.0 | 1669.0 | 1676.6 | | 1014.1 | 1021.7 |
| Loglogistic | 9347.6 | 9358.7 | 1065.3 | 1072.7 | 1638.7 | 1646.2 | 614.4 | 621.5 | 1997.8 | 2005.6 | 1661.3 | 1668.9 | | 1004.3 | 1012.0 |
| Generalized gamma | 9372.0 | 9388.7 | 1068.5 | 1079.6 | 1643.0 | 1654.3 | 616.4 | 627.1 | 1998.2 | 2009.9 | 1662.1 | 1673.5 | | 1007.0 | 1018.4 |
| Gompertz | 9516.9 | 9528.0 | 1078.6 | 1086.0 | 1661.6 | 1669.1 | 627.2 | 634.3 | 2036.7 | 2044.5 | 1668.8 | 1676.4 | | 1013.9 | 1021.5 |
| Weibull | 9407.3 | 9418.4 | 1067.1 | 1074.5 | 1650.5 | 1658.0 | 617.7 | 624.8 | 2019.2 | 2027.0 | 1661.3 | 1668.9 | | 1005.3 | 1012.9 |
| Spline-odds 2 | 9333.1 | 9355.3 | 1065.9 | 1080.7 | 1640.3 | 1655.4 | 616.1 | 630.3 | 1996.0 | 2011.7 | 1664.0 | 1679.2 | | 1005.4 | 1020.6 |
| Spline-odds 3 | 9335.1 | 9362.9 | 1067.3 | 1085.8 | 1642.5 | 1661.4 | 617.1 | 634.9 | 1998.1 | 2017.7 | 1665.1 | 1684.0 | | 1005.4 | 1024.4 |
| Spline-hazard 2 | 9330.1 | 9352.3 | 1066.3 | 1081.1 | 1640.1 | 1655.2 | 616.1 | 630.3 | 1996.1 | 2011.8 | 1663.8 | 1679.0 | | 1005.2 | 1020.4 |
| Spline-hazard 3 | 9333.2 | 9361.0 | 1067.6 | 1086.1 | 1642.4 | 1661.2 | 617.5 | 635.2 | 1998.1 | 2017.7 | 1665.2 | 1684.1 | | 1005.5 | 1024.6 |
| Spline-normal 2 | 9335.3 | 9357.5 | 1065.7 | 1080.5 | 1639.8 | 1654.9 | 616.3 | 630.5 | 1994.7 | 2010.3 | 1663.5 | 1678.7 | | 1005.9 | 1021.1 |
| Spline-normal 3 | 9334.7 | 9362.5 | 1067.4 | 1085.9 | 1642.2 | 1661.0 | 616.6 | 634.3 | 1996.9 | 2016.5 | 1664.6 | 1683.5 | | 1005.1 | 1024.2 |
| The optimum distribution | Spline-hazard 2 | | Loglogistic | | Loglogistic | | Loglogistic | | Loglogistic | | Loglogistic | | Loglogistic | | |

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| PFS | | | | | | | | | | | | | | |
| Disturbution | AIC-BIC | | | | | | | | | | | | | |
| che | che | cam+che | cam+che | niv+che | niv+che | tori+che | tori+che | pemb+che | pemb+che | tisle+che | tisle+che | sinti+che | sinti+che |
| Exponential | 8499.6 | 8505.2 | 1308.9 | 1312.6 | 1512.0 | 1515.8 | 887.2 | 890.7 | 2011.2 | 2015.2 | 1557.8 | 1561.6 | 1373.3 | 1377.1 |
| LogNormal | 8132.0 | 8143.1 | 1254.4 | 1261.8 | 1475.3 | 1482.9 | 841.4 | 848.5 | 1974.3 | 1982.1 | 1502.9 | 1510.5 | 1315.0 | 1322.6 |
| Loglogistic | 8107.6 | 8118.7 | 1247.0 | 1254.4 | 1474.9 | 1482.4 | 839.9 | 847.0 | 1959.4 | 1967.3 | 1501.7 | 1509.3 | 1319.6 | 1327.1 |
| Generalized gamma | 8122.6 | 8139.3 | 1255.7 | 1266.8 | 1476.9 | 1488.2 | 843.0 | 853.7 | 1973.3 | 1985.0 | 1499.5 | 1510.9 | 1314.0 | 1325.3 |
| Gompertz | 8458.6 | 8469.7 | 1298.9 | 1306.3 | 1511.6 | 1519.1 | 885.3 | 892.4 | 2013.2 | 2021.0 | 1557.9 | 1565.5 | 1370.8 | 1378.3 |
| Weibull | 8256.1 | 8267.2 | 1270.7 | 1278.1 | 1509.5 | 1517.0 | 862.9 | 870.0 | 1998.7 | 2006.5 | 1550.8 | 1558.4 | 1347.0 | 1354.5 |
| Spline-odds 2 | 8101.1 | 8123.3 | 1236.8 | 1251.6 | 1476.8 | 1491.9 | 836.0 | 850.2 | 1954.2 | 1969.9 | 1484.8 | 1499.9 | 1307.6 | 1322.7 |
| Spline-odds 3 | 8027.9 | 8055.7 | 1237.2 | 1255.6 | 1472.9 | 1491.7 | 816.8 | 834.5 | 1950.9 | 1970.5 | 1479.5 | 1498.4 | 1309.6 | 1328.6 |
| Spline-hazard 2 | 8109.2 | 8131.4 | 1234.9 | 1249.7 | 1478.8 | 1493.9 | 833.4 | 847.6 | 1952.4 | 1968.1 | 1481.7 | 1496.9 | 1308.3 | 1323.4 |
| Spline-hazard 3 | 8027.3 | 8055.1 | 1236.7 | 1255.2 | 1473.4 | 1492.2 | 818.5 | 836.2 | 1953.7 | 1973.3 | 1480.0 | 1498.9 | 1309.9 | 1328.9 |
| Spline-normal 2 | 8113.8 | 8136.0 | 1238.3 | 1253.1 | 1477.7 | 1492.8 | 837.1 | 851.3 | 1953.8 | 1969.4 | 1484.2 | 1499.3 | 1306.6 | 1321.8 |
| Spline-normal 3 | 8027.3 | 8055.1 | 1237.0 | 1255.5 | 1474.1 | 1492.9 | 816.3 | 834.1 | 1950.4 | 1970.0 | 1478.4 | 1497.3 | 1308.7 | 1327.6 |
| The optimum distribution | Spline-normal 3 | | Spline-hazard 2 | | Loglogistic | | Spline-normal 3 | | Spline-normal 3 | | Spline-normal 3 | | Spline-normal 2 | |

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|  | OS | | PFS | |
| Disturbution | Pars | Disturbution | Pars |
| Che | Spline-hazard 2 | gamma0 = -4.229 gamma1 = 1.350  gamma2 = -0.539 gamma3 = 0.717 | Spline-normal 3 | gamma0 = -1.801 gamma1 = 1.308  gamma2 = 1.004 gamma3 = -2.781  gamma4 = 1.991 |
| Cam+che | Loglogistic | shape = 0.746  scale = 2.725 | Spline-hazard 2 | gamma0 =-4.095 gamma1 = 1.531  gamma2 = -1.391 gamma3 = 1.899 |
| Niv+che | Loglogistic | shape = 0.502  scale = 2.624 | Loglogistic | shape = 0.514  scale = 1.831 |
| Tori+che | Loglogistic | shape = 0.602  scale = 2.825 | Spline-normal 3 | gamma0 = -2.248 gamma1 = 1.488  gamma2 = 1.906 gamma3 = -14.900  gamma4 = 13.960 |
| Pemb+che | Loglogistic | shape = 0.551  scale = 2.563 | Spline-normal 3 | gamma0 = -1.865 gamma1 = 0.584  gamma2 = 0.321 gamma3 = -1.845  gamma4 = 1.674 |
| Tisle+che | Loglogistic | shape = 0.487  scale = 2.867 | Spline-normal 3 | gamma0 = -2.262 gamma1 = 1.050  gamma2 = 0.742 gamma3 = -2.649  gamma4 = 2.239 |
| Sinti+che | Loglogistic | shape = 0.610  scale = 2.834 | Spline-normal 2 | gamma0 = -2.499 gamma1 = 0.951  gamma2 = -0.617 gamma3 = 0.729 |