

# Appendix X. Additional data for Clarification questions

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### Question A1

Table A1-1 displays the results for the analysis of 97 patients agreed on consensus to have aggressive B-cell lymphoma.

**Table A1-1 Endpoint summary for the consensus-determined HITT B-cell analysis set**

| Outcome   | Pixantrone                       |          | Physician's choice               |          | p value                          |
|---|----------------------------------|----------|----------------------------------|----------|----------------------------------|
|   | n                                | N        | n                                | N        |                                  |
| <b>Primary outcome (end of treatment)</b>                                 |                                  |          |                                  |          |                                  |
| CR/Cru  | 8                                | 50       | 3                                | 47       | 0.202                            |
| CR  | 6                                | 50       | 0                                | 47       | 0.027                            |
| CRu   | 2                                | 50       | 3                                | 47       | 0.671                            |
| <b>Primary outcome (end of study)</b>                                     |                                  |          |                                  |          |                                  |
| CR/Cru  | 9                                | 50       | 4                                | 47       | 0.236                            |
| CR  | 7                                | 50       | 0                                | 47       | 0.013                            |
| CRu   | 2                                | 50       | 4                                | 47       | 0.426                            |
| <b>Secondary outcomes</b>   |                                  |          |                                  |          |                                  |
| ORR (end of treatment)  | 17                               | 50       | 8                                | 47       | 0.066                            |
| CR  | 6                                | 50       | 0                                | 47       | 0.027                            |
| CRu   | 2                                | 50       | 3                                | 47       | 0.671                            |
| Partial response  | 9                                | 50       | 5                                | 47       | 0.391                            |
| ORR (end of study)  | 18                               | 50       | 8                                | 47       | 0.041                            |
| CR  | 7                                | 50       | 0                                | 47       | 0.013                            |
| CRu   | 2                                | 50       | 4                                | 47       | 0.426                            |
| Partial response  | 9                                | 50       | 4                                | 47       | 0.236                            |
| Proportion of patients achieving a response (CR/Cru/PR) lasting ≥4 months | 7                                | 50       | 4                                | 47       | 0.526                            |
| Mean relative dose intensity (SD)   | 84.2 (19.04)                     | 50       | 87.2 (21.81)                     | 45       | 0.477                            |
|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
| PFS, months   |                                  | 50       |                                  | 47       |                                  |
| Median (range)  | 5.6 (0.7-24.0)                   |          | 2.5 (0.0-24.0)                   |          | 0.51                             |

|  |                |    |                |    |              |
|--|----------------|----|----------------|----|--------------|
| Mean (SD)  | 7.7 (7.75)     |    | 3.7 (4.10)     |    | (0.33, 0.78) |
| OS, months   |                | 50 |                | 47 |              |
| Median (range)   | 8.1 (0.8-24.0) |    | 6.3 (0.1-24.0) |    | 0.72         |
| Mean (SD)  | 11.3 (8.80)    |    | 8.9 (7.91)     |    | (0.45, 1.13) |
| Time to response, months   |                | 18 |                | 8  |              |
| Median (range)   | 2.0 (1.6-8.2)  |    | 1.9 (1.6-2.8)  |    | 0.56         |
| Mean (SD)  | 2.8 (1.77)     |    | 2.0 (0.38)     |    | (0.23, 1.36) |
| Time to complete response, months  |                | 9  |                | 4  |              |
| Median (range)   | 2.0 (1.6-8.2)  |    | 3.7 (2.3-19.0) |    | 3.15         |
| Mean (SD)  | 2.8 (2.13)     |    | 7.1 (7.92)     |    | (0.82, 12.1) |
| Duration of response, months   |                | 18 |                | 8  |              |
| Median (range)   | 5.2 (2.1-22.5) |    | 3.3 (0.0-22.2) |    | 0.64         |
| Mean (SD)  | 9.0 (7.27)     |    | 5.4 (7.19)     |    | (0.26, 1.56) |
| Abbreviations used in table: CI, confidence interval; CR, complete response; CRu, unconfirmed complete response; EOS, end of study; n, number of patients with outcome; N, number of patients in subgroup; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation. |                |    |                |    |              |
| Means for the time to event analyses are arithmetic means of the durations   |                |    |                |    |              |

Table A1-2 displays the results for the analysis set of the 42 HITT B-Cell patients who received their 3<sup>rd</sup> line of therapy during the PIX301 study.

**Table A1-2 Endpoint summary for the consensus-determined HITT B-cell patients receiving third-line therapy analysis set**

| Outcome                                   | Pixantrone |    | Physician's choice |    | p value |
|---|------------|----|--------------------|----|---------|
|   | n          | N  | n                  | N  |         |
| <b>Primary outcome (end of treatment)</b> |            |    |                    |    |         |
| CR/Cru                                    | 5          | 22 | 1                  | 20 | 0.187   |
| CR  | 3          | 22 | 0                  | 20 | 0.233   |
| CRu                                       | 2          | 22 | 1                  | 20 | 1.000   |
| <b>Primary outcome (end of study)</b>     |            |    |                    |    |         |
| CR/Cru                                    | 6          | 22 | 1                  | 20 | 0.096   |
| CR  | 4          | 22 | 0                  | 20 | 0.109   |
| CRu                                       | 2          | 22 | 1                  | 20 | 1.000   |

| <b>Secondary outcomes</b>   |                                  |          |                                  |          |                                  |
|---|----------------------------------|----------|----------------------------------|----------|----------------------------------|
| ORR (end of treatment)  | 10                               | 22       | 2                                | 20       | 0.017                            |
| CR  | 3                                | 22       | 0                                | 20       | 0.233                            |
| CRu   | 2                                | 22       | 1                                | 20       | 1.000                            |
| Partial response  | 5                                | 22       | 1                                | 20       | 0.187                            |
| ORR (end of study)  | 10                               | 22       | 2                                | 20       | 0.017                            |
| CR  | 4                                | 22       | 0                                | 20       | 0.109                            |
| CRu   | 2                                | 22       | 1                                | 20       | 1.000                            |
| Partial response  | 4                                | 22       | 1                                | 20       | 0.346                            |
| Proportion of patients achieving a response (CR/Cru/PR) lasting ≥4 months | 6                                | 22       | 1                                | 20       | 0.096                            |
| Mean relative dose intensity (SD)   | 84.5 (19.43)                     | 22       | 93.3 (11.21)                     | 20       | 0.079                            |
|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
| PFS, months   |                                  | 22       |                                  | 20       |                                  |
| Median (range)  | 5.7 (1.1-24.0)                   |          | 2.9 (0.3-13.5)                   |          | 0.43                             |
| Mean (SD)   | 9.3 (8.87)                       |          | 3.6 (3.01)                       |          | (0.22, 0.85)                     |
| OS, months  |                                  | 22       |                                  | 20       |                                  |
| Median (range)  | 7.0 (1.1-24.0)                   |          | 7.0 (0.8-21.9)                   |          | 0.58                             |
| Mean (SD)   | 12.1 (9.42)                      |          | 8.7 (7.10)                       |          | (0.29, 1.18)                     |
| Time to response, months  |                                  | 10       |                                  | 2        |                                  |
| Median (range)  | 2.2 (1.7-6.0)                    |          | 2.2 (1.6-2.8)                    |          | 0.61                             |
| Mean (SD)   | 2.8 (1.39)                       |          | 2.2 (0.86)                       |          | (0.12, 3.01)                     |
| Time to complete response, months   |                                  | 6        |                                  | 1        |                                  |
| Median (range)  | 2.2 (1.7-8.2)                    |          | 3.6 (3.6-3.6)                    |          | 1.89                             |
| Mean (SD)   | 3.3 (2.49)                       |          | 3.6 (NE)                         |          | (0.21, 17.3)                     |
| Duration of response, months  |                                  | 10       |                                  | 2        |                                  |
| Median (range)  | 11.6 (3.8-22.5)                  |          | 2.4 (0.0-4.8)                    |          | 0.20                             |
| Mean (SD)   | 12.7 (7.92)                      |          | 2.4 (3.39)                       |          | (0.03, 1.20)                     |

Abbreviations used in table: CI, confidence interval; CR, complete response; CRu, unconfirmed complete response; EOS, end of study; n, number of patients with outcome; N, number of patients in subgroup; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation.

Means for the time to event analyses are arithmetic means of the durations

Table A1-3 displays the results for the analysis set of the 36 HITT B-Cell patients who received their fourth line of therapy during the PIX301 study. Due to the very small sample size, only descriptive statistics are presented. Since there was only one patient with a response, which was unconfirmed (CRu), time-to-response and duration-of-response analyses were not performed.

**Table A1-3 Endpoint summary for the consensus HITT B-cell patients receiving fourth-line therapy analysis set**

| Outcome   | Pixantrone   |    | Physician's choice |    | p value |
|---|--------------|----|--------------------|----|---------|
|   | n            | N  | n                  | N  |         |
| <b>Primary outcome (end of treatment)</b>                                 |              |    |                    |    |         |
| CR/Cru  | 3            | 17 | 1                  | 19 | 0.326   |
| CR  | 3            | 17 | 0                  | 19 | 0.095   |
| CRu   | 0            | 17 | 1                  | 19 | 1.000   |
| <b>Primary outcome (end of study)</b>                                     |              |    |                    |    |         |
| CR/Cru  | 3            | 17 | 1                  | 19 | 0.326   |
| CR  | 3            | 17 | 0                  | 19 | 0.095   |
| CRu   | 0            | 17 | 1                  | 19 | 1.000   |
| <b>Secondary outcomes</b>   |              |    |                    |    |         |
| ORR (end of treatment)  | 7            | 17 | 3                  | 19 | 0.139   |
| CR  | 3            | 17 | 0                  | 19 | 0.095   |
| CRu   | 0            | 17 | 1                  | 19 | 1.000   |
| Partial response  | 4            | 17 | 2                  | 19 | 0.391   |
| ORR (end of study)  | 7            | 17 | 3                  | 19 | 0.139   |
| CR  | 3            | 17 | 0                  | 19 | 0.095   |
| CRu   | 0            | 17 | 1                  | 19 | 1.000   |
| Partial response  | 4            | 17 | 2                  | 19 | 0.391   |
| Proportion of patients achieving a response (CR/Cru/PR) lasting ≥4 months | 1            | 17 | 2                  | 19 | 1.000   |
| Mean relative dose intensity (SD)   | 82.7 (18.60) | 17 | 83.5 (26.12)       | 18 | 0.912   |

|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
|---|----------------------------------|----------|----------------------------------|----------|----------------------------------|
| PFS, months   |                                  | 17       |                                  | 19       |                                  |
| Median (range)  | 5.7 (0.7-24.0)                   |          | 2.0 (0.0-10.3)                   |          | 0.51                             |
| Mean (SD)   | 7.1 (6.95)                       |          | 3.3 (2.93)                       |          | (0.25, 1.04)                     |
| OS, months  |                                  | 17       |                                  | 19       |                                  |
| Median (range)  | 11.9 (1.1-24.0)                  |          | 7.0 (0.2-24.0)                   |          | 0.76                             |
| Mean (SD)   | 12.0 (8.15)                      |          | 9.9 (8.86)                       |          | (0.35, 1.65)                     |
| Time to response, months  |                                  | 7        |                                  | 3        |                                  |
| Median (range)  | 1.8 (1.6-3.4)                    |          | 1.8 (1.8-1.9)                    |          | 0.99                             |
| Mean (SD)   | 2.0 (0.62)                       |          | 1.9 (0.08)                       |          | (0.23, 4.26)                     |
| Time to complete response, months   |                                  | 3        |                                  | 1        |                                  |
| Median (range)  | 1.6 (1.6-1.8)                    |          | 3.7 (3.7-3.7)                    |          | NE                               |
| Mean (SD)   | 1.7 (0.08)                       |          | 3.7 (NE)                         |          |                                  |
| Duration of response, months  |                                  | 7        |                                  | 3        |                                  |
| Median (range )   | 4.0 (3.0-8.6)                    |          | 5.7 (1.7-6.0)                    |          | 1.27                             |
| Mean (SD)   | 4.7 (1.95)                       |          | 4.5 (2.40)                       |          | (0.30, 5.39)                     |
| Abbreviations used in table: CI, confidence interval; CR, complete response; CRu, unconfirmed complete response; EOS, end of study; n, number of patients with outcome; N, number of patients in subgroup; NE, Not Evaluable; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation. |                                  |          |                                  |          |                                  |
| Means for the time to event analyses are arithmetic means of the durations  |                                  |          |                                  |          |                                  |

Table A1-4 displays the results for the analysis set of the 78 HITT B-Cell patients who received either their third or fourth line of therapy during the PIX301 study.



**Table A1-4 Endpoint summary for the consensus HITT B-cell patients receiving third or fourth line therapy analysis set**

| Outcome   | Pixantrone                       |          | Physician's choice               |          | p value                          |
|---|----------------------------------|----------|----------------------------------|----------|----------------------------------|
|   | n                                | N        | n                                | N        |                                  |
| <b>Primary outcome (end of treatment)</b>                                 |                                  |          |                                  |          |                                  |
| CR/Cru  | 8                                | 39       | 2                                | 39       | 0.087                            |
| CR  | 6                                | 39       | 0                                | 39       | 0.025                            |
| CRu   | 2                                | 39       | 2                                | 39       | 1.000                            |
| <b>Primary outcome (end of study)</b>                                     |                                  |          |                                  |          |                                  |
| CR/Cru  | 9                                | 39       | 2                                | 39       | 0.047                            |
| CR  | 7                                | 39       | 0                                | 39       | 0.012                            |
| CRu   | 2                                | 39       | 2                                | 39       | 1.000                            |
| <b>Secondary outcomes</b>   |                                  |          |                                  |          |                                  |
| ORR (end of treatment)  | 17                               | 39       | 5                                | 39       | 0.005                            |
| CR  | 6                                | 39       | 0                                | 39       | 0.025                            |
| CRu   | 2                                | 39       | 2                                | 39       | 1.000                            |
| Partial response  | 9                                | 39       | 3                                | 39       | 0.114                            |
| ORR (end of study)  | 17                               | 39       | 5                                | 39       | 0.005                            |
| CR  | 7                                | 39       | 0                                | 39       | 0.012                            |
| CRu   | 2                                | 39       | 2                                | 39       | 1.000                            |
| Partial response  | 8                                | 39       | 3                                | 39       | 0.192                            |
| Proportion of patients achieving a response (CR/Cru/PR) lasting ≥4 months | 7                                | 39       | 3                                | 39       | 0.310                            |
| Mean relative dose intensity (SD)   | 83.7 (18.85)                     | 39       | 88.6 (20.05)                     | 38       | 0.268                            |
|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
| PFS, months   |                                  | 39       |                                  | 39       |                                  |
| Median (range)  | 5.7 (0.7-24.0)                   |          | 2.8 (0.0-13.5)                   |          | 0.44                             |
| Mean (SD)   | 8.3 (8.07)                       |          | 3.4 (2.94)                       |          | (0.27, 0.71)                     |
| OS, months  |                                  | 39       |                                  | 39       |                                  |
| Median (range)  | 11.9 (1.1-24.0)                  |          | 7.0 (0.2-24.0)                   |          | 0.67                             |

|  |                |    |               |   |              |
|--|----------------|----|---------------|---|--------------|
| Mean (SD)  | 12.1 (8.78)    |    | 9.3 (7.92)    |   | (0.40, 1.12) |
| Time to response, months   |                | 17 |               | 5 |              |
| Median (range)   | 2.0 (1.6-6.0)  |    | 1.8 (1.6-2.8) |   | 0.57         |
| Mean (SD)  | 2.5 (1.18)     |    | 2.0 (0.48)    |   | (0.20, 1.61) |
| Time to complete response, months  |                | 9  |               | 2 |              |
| Median (range)   | 2.0 (1.6-8.2)  |    | 3.7 (3.6-3.7) |   | 2.36         |
| Mean (SD)  | 2.8 (2.13)     |    | 3.7 (0.02)    |   | (0.47, 11.9) |
| Duration of response, months   |                | 17 |               | 5 |              |
| Median (range)   | 5.5 (3.0-22.5) |    | 4.8 (0.0-6.0) |   | 0.40         |
| Mean (SD)  | 9.4 (7.29)     |    | 3.7 (2.65)    |   | (0.13, 1.20) |
| Abbreviations used in table: CI, confidence interval; CR, complete response; CRu, unconfirmed complete response; EOS, end of study; n, number of patients with outcome; N, number of patients in subgroup; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation. |                |    |               |   |              |
| Means for the time to event analyses are arithmetic means of the durations   |                |    |               |   |              |

Table A1-5 displays the results for the analysis set of the 56 HITT B-Cell patients who had rituximab exposure prior to enrolment in the PIX301 study. This table includes all patients with consensus-agreement of aggressive histology, receiving third or further lines of therapy.

**Table A1-5 Endpoint summary for the consensus HITT B-cell patients with prior rituximab analysis set**

| Outcome                                   | Pixantrone |    | Physician's choice |    | p value |
|---|------------|----|--------------------|----|---------|
|   | n          | N  | n                  | N  |         |
| <b>Primary outcome (end of treatment)</b> |            |    |                    |    |         |
| CR/Cru                                    | 5          | 30 | 2                  | 26 | 0.431   |
| CR  | 4          | 30 | 0                  | 26 | 0.115   |
| CRu                                       | 1          | 30 | 2                  | 26 | 0.592   |
| <b>Primary outcome (end of study)</b>     |            |    |                    |    |         |
| CR/Cru                                    | 6          | 30 | 3                  | 26 | 0.481   |
| CR  | 5          | 30 | 0                  | 26 | 0.055   |
| CRu                                       | 1          | 30 | 3                  | 26 | 0.328   |
| <b>Secondary outcomes</b>                 |            |    |                    |    |         |

|   |                                  |          |                                  |          |                                  |
|---|----------------------------------|----------|----------------------------------|----------|----------------------------------|
| ORR (end of treatment)  | 9                                | 30       | 5                                | 26       | 0.537                            |
| CR  | 4                                | 30       | 0                                | 26       | 0.115                            |
| CRu   | 1                                | 30       | 2                                | 26       | 0.592                            |
| Partial response  | 4                                | 30       | 3                                | 26       | 1.000                            |
| ORR (end of study)  | 9                                | 30       | 5                                | 26       | 0.537                            |
| CR  | 5                                | 30       | 0                                | 26       | 0.055                            |
| CRu   | 1                                | 30       | 3                                | 26       | 0.328                            |
| Partial response  | 3                                | 30       | 2                                | 26       | 1.000                            |
| Proportion of patients achieving a response (CR/Cru/PR) lasting $\geq$ 4 months   | 4                                | 30       | 2                                | 26       | 0.675                            |
| Mean relative dose intensity (SD)   | 79.8 (22.23)                     | 30       | 85.0 (23.43)                     | 24       | 0.410                            |
|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
| PFS, months   |                                  | 30       |                                  | 26       |                                  |
| Median (range)  | 3.5 (0.7-24.0)                   |          | 2.3 (0.0-24.0)                   |          | 0.66                             |
| Mean (SD)   | 5.9 (6.20)                       |          | 3.6 (4.78)                       |          | (0.38, 1.14)                     |
| OS, months  |                                  | 30       |                                  | 26       |                                  |
| Median (range)  | 6.0 (0.8-24.0)                   |          | 4.6 (0.1-24.0)                   |          | 0.85                             |
| Mean (SD)   | 8.9 (7.90)                       |          | 7.7 (7.80)                       |          | (0.48, 1.50)                     |
| Time to response, months  |                                  | 9        |                                  | 5        |                                  |
| Median (range)  | 1.8 (1.6-6.0)                    |          | 1.9 (1.8-2.3)                    |          | 0.88                             |
| Mean (SD)   | 2.3 (1.39)                       |          | 2.0 (0.18)                       |          | (0.28, 2.82)                     |
| Time to complete response, months   |                                  | 6        |                                  | 3        |                                  |
| Median (range)  | 1.8 (1.6-8.2)                    |          | 3.7 (2.3-19.0)                   |          | 3.49                             |
| Mean (SD)   | 2.8 (2.64)                       |          | 8.3 (9.27)                       |          | (0.67, 18.3)                     |
| Duration of response, months  |                                  | 9        |                                  | 5        |                                  |
| Median (range)  | 5.5 (3.6-22.5)                   |          | 1.7 (1.0-22.2)                   |          | 0.71                             |
| Mean (SD)   | 8.5 (6.20)                       |          | 6.4 (9.04)                       |          | (0.21, 2.40)                     |
| Abbreviations used in table: CI, confidence interval; CR, complete response; CRu, |                                  |          |                                  |          |                                  |

unconfirmed complete response; EOS, end of study; n, number of patients with outcome; N, number of patients in subgroup; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation.

Means for the time to event analyses are arithmetic means of the durations

Table A1-6 displays the results for the analysis set of the 41 HITT B-Cell patients who had no rituximab exposure prior to enrolment in the PIX301 study.

**Table A1-6 Endpoint summary for the HITT B-cell patients with no prior rituximab analysis set**

| Outcome   | Pixantrone                       |          | Physician's choice               |          | p value                |
|---|----------------------------------|----------|----------------------------------|----------|------------------------|
|   | n                                | N        | n                                | N        |                        |
| <b>Primary outcome (end of treatment)</b>                                 |                                  |          |                                  |          |                        |
| CR/Cru  | 3                                | 20       | 1                                | 21       | 0.343                  |
| CR  | 2                                | 20       | 0                                | 21       | 0.232                  |
| CRu   | 1                                | 20       | 1                                | 21       | 1.000                  |
| <b>Primary outcome (end of study)</b>                                     |                                  |          |                                  |          |                        |
| CR/Cru  | 3                                | 20       | 1                                | 21       | 0.343                  |
| CR  | 2                                | 20       | 0                                | 21       | 0.232                  |
| CRu   | 1                                | 20       | 1                                | 21       | 1.000                  |
| <b>Secondary outcomes</b>   |                                  |          |                                  |          |                        |
| ORR (end of treatment)  | 8                                | 20       | 3                                | 21       | 0.085                  |
| CR  | 2                                | 20       | 0                                | 21       | 0.232                  |
| CRu   | 1                                | 20       | 1                                | 21       | 1.000                  |
| Partial response  | 5                                | 20       | 2                                | 21       | 0.238                  |
| ORR (end of study)  | 9                                | 20       | 3                                | 21       | 0.043                  |
| CR  | 2                                | 20       | 0                                | 21       | 0.232                  |
| CRu   | 1                                | 20       | 1                                | 21       | 1.000                  |
| Partial response  | 6                                | 20       | 2                                | 21       | 0.130                  |
| Proportion of patients achieving a response (CR/Cru/PR) lasting ≥4 months | 3                                | 20       | 2                                | 21       | 0.663                  |
| Mean relative dose intensity (SD)   | 90.8 (10.26)                     | 20       | 89.7 (20.06)                     | 21       | 0.832                  |
|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)</b> |

|   |                 |    |                |    | (EOS)        |
|---|-----------------|----|----------------|----|--------------|
| PFS, months   |                 | 20 |                | 21 |              |
| Median (range)  | 6.3 (1.3-24.0)  |    | 3.5 (0.3-13.5) |    | 0.35         |
| Mean (SD)   | 10.4 (9.13)     |    | 3.7 (3.17)     |    | (0.17, 0.70) |
| OS, months  |                 | 20 |                | 21 |              |
| Median (range)  | 16.1 (1.8-24.0) |    | 7.8 (1.2-24.0) |    | 0.52         |
| Mean (SD)   | 14.8 (9.07)     |    | 10.4 (7.98)    |    | (0.24, 1.11) |
| Time to response, months  |                 | 9  |                | 3  |              |
| Median (range)  | 2.4 (1.7-8.2)   |    | 1.8 (1.6-2.8)  |    | 0.34         |
| Mean (SD)   | 3.2 (2.07)      |    | 2.1 (0.65)     |    | (0.08, 1.45) |
| Time to complete response, months   |                 | 3  |                | 1  |              |
| Median (range)  | 2.4 (2.0-3.6)   |    | 3.6 (3.6-3.6)  |    | NE           |
| Mean (SD)   | 2.7 (0.83)      |    | 3.6 (NE)       |    |              |
| Duration of response, months  |                 | 9  |                | 3  |              |
| Median (range)  | 3.9 (2.1-21.2)  |    | 4.8 (0.0-6.0)  |    | 0.52         |
| Mean (SD)   | 9.5 (8.56)      |    | 3.6 (3.18)     |    | (0.12, 2.21) |
| Abbreviations used in table: CI, confidence interval; CR, complete response; CRu, unconfirmed complete response; EOS, end of study; n, number of patients with outcome; N, number of patients in subgroup; NE, Not Evaluable; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation. |                 |    |                |    |              |
| Means for the time to event analyses are arithmetic means of the durations  |                 |    |                |    |              |

Table A1-7 displays the results for the analysis set of the 38 HITT B-Cell patients who received their 3<sup>rd</sup> or 4<sup>th</sup> line of therapy as part of PIX301 and had prior exposure to rituximab therapy. This set of patients most closely reflects the approved population. Due to the small number of patients with CR/CRu in either group (≤10 patients), the hazard ratios for the three responder analyses were not evaluable.

Among this subgroup, 10 (50%) of patients receiving pixantrone received between 4 and 6 cycles of therapy compared with 5 (28%) of patients receiving physician's choice of chemotherapy. Please see additional statistical tables in Appendix Z on the accompanying CD for more details.

**Table A1-7 Endpoint summary for the HITT B-cell patients receiving third or fourth-line therapy with prior rituximab analysis set**

| Outcome   | Pixantrone                       |          | Physician's choice               |          | p value                          |
|---|----------------------------------|----------|----------------------------------|----------|----------------------------------|
|   | n                                | N        | n                                | N        |                                  |
| <b>Primary outcome (end of treatment)</b>                                 |                                  |          |                                  |          |                                  |
| CR/Cru  | 5                                | 20       | 1                                | 18       | 0.184                            |
| CR  | 4                                | 20       | 0                                | 18       | 0.107                            |
| CRu   | 1                                | 20       | 1                                | 18       | 1.000                            |
| <b>Primary outcome (end of study)</b>                                     |                                  |          |                                  |          |                                  |
| CR/Cru  | 6                                | 20       | 1                                | 18       | 0.093                            |
| CR  | 5                                | 20       | 0                                | 18       | 0.048                            |
| CRu   | 1                                | 20       | 1                                | 18       | 1.000                            |
| <b>Secondary outcomes</b>   |                                  |          |                                  |          |                                  |
| ORR (end of treatment)  | 9                                | 20       | 2                                | 18       | 0.033                            |
| CR  | 4                                | 20       | 0                                | 18       | 0.107                            |
| CRu   | 1                                | 20       | 1                                | 18       | 1.000                            |
| Partial response  | 4                                | 20       | 1                                | 18       | 0.344                            |
| ORR (end of study)  | 9                                | 20       | 2                                | 18       | 0.033                            |
| CR  | 5                                | 20       | 0                                | 18       | 0.048                            |
| CRu   | 1                                | 20       | 1                                | 18       | 1.000                            |
| Partial response  | 3                                | 20       | 1                                | 18       | 0.606                            |
| Proportion of patients achieving a response (CR/Cru/PR) lasting ≥4 months | 4                                | 20       | 1                                | 18       | 0.344                            |
| Mean relative dose intensity (SD)   | 77.5 (22.98)                     | 20       | 87.4 (20.58)                     | 17       | 0.182                            |
|   | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
| PFS, months   |                                  | 20       |                                  | 18       |                                  |
| Median (range)  | 5.4 (0.7-24.0)                   |          | 2.8 (0.0-10.3)                   |          | 0.52                             |
| Mean (SD)   | 6.4 (6.19)                       |          | 3.2 (2.71)                       |          | (0.26, 1.04)                     |
| OS, months  |                                  | 20       |                                  | 18       |                                  |
| Median (range)  | 7.5 (1.1-24.0)                   |          | 5.4 (0.2-22.5)                   |          | 0.76                             |

|  |                |   |               |   |              |
|--|----------------|---|---------------|---|--------------|
| Mean (SD)  | 9.9 (8.15)     |   | 7.9 (7.85)    |   | (0.38, 1.55) |
| Time to response, months   |                | 9 |               | 2 |              |
| Median (range)   | 1.8 (1.6-6.0)  |   | 1.9 (1.8-1.9) |   | NE           |
| Mean (SD)  | 2.3 (1.39)     |   | 1.9 (0.09)    |   |              |
| Time to complete response, months  |                | 6 |               | 1 |              |
| Median (range)   | 1.8 (1.6-8.2)  |   | 3.7 (3.7-3.7) |   | NE           |
| Mean (SD)  | 2.8 (2.64)     |   | 3.7 (NE)      |   |              |
| Duration of response, months   |                | 9 |               | 2 |              |
| Median (range)   | 5.5 (3.6-22.5) |   | 3.7 (1.7-5.7) |   | NE           |
| Mean (SD)  | 8.5 (6.20)     |   | 3.7 (2.81)    |   |              |
| Abbreviations used in table: CR, complete response; CRu, unconfirmed complete response; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation; NE, Not Evaluable. |                |   |               |   |              |
| Means for the time to event analyses are arithmetic means of the durations.  |                |   |               |   |              |

Table A1-8 displays the results for the analysis set of the 40 HITT B-cell patients who received their 3<sup>rd</sup> or 4<sup>th</sup> line of therapy in PIX301 and had no prior rituximab therapy. Due to the small number of patients with response in either group ( $\leq 10$  patients), the hazard ratios for the three responder analyses were not evaluable.

**Table A1-8 Endpoint summary for the HITT B-cell patients receiving third or fourth-line therapy and no prior rituximab analysis set**

| Outcome                                   | Pixantrone |    | Physician's choice |    | p value |
|---|------------|----|--------------------|----|---------|
|   | n          | N  | n                  | N  |         |
| <b>Primary outcome (end of treatment)</b> |            |    |                    |    |         |
| CR/Cru                                    | 3          | 19 | 1                  | 21 | 0.331   |
| CR  | 2          | 19 | 0                  | 21 | 0.219   |
| CRu                                       | 1          | 19 | 1                  | 21 | 1.000   |
| <b>Primary outcome (end of study)</b>     |            |    |                    |    |         |
| CR/Cru                                    | 3          | 19 | 1                  | 21 | 0.331   |
| CR  | 2          | 19 | 0                  | 21 | 0.219   |
| CRu                                       | 1          | 19 | 1                  | 21 | 1.000   |
| <b>Secondary outcomes</b>                 |            |    |                    |    |         |
| ORR (end of treatment)                    | 8          | 19 | 3                  | 21 | 0.078   |

|  |                                  |          |                                  |          |                                  |
|--|----------------------------------|----------|----------------------------------|----------|----------------------------------|
| CR   | 2                                | 19       | 0                                | 21       | 0.219                            |
| CRu  | 1                                | 19       | 1                                | 21       | 1.000                            |
| Partial response   | 5                                | 19       | 2                                | 21       | 0.226                            |
| ORR (end of study)   | 8                                | 19       | 3                                | 21       | 0.078                            |
| CR   | 2                                | 19       | 0                                | 21       | 0.219                            |
| CRu  | 1                                | 19       | 1                                | 21       | 1.000                            |
| Partial response   | 5                                | 19       | 2                                | 21       | 0.226                            |
| Proportion of patients achieving a response (CR/CRu/PR) lasting ≥4 months  | 3                                | 19       | 2                                | 21       | 0.654                            |
| Mean relative dose intensity (SD)  | 90.2 (10.24)                     | 19       | 89.7 (20.06)                     | 21       | 0.919                            |
|  | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>Result<br/>(end of study)</b> | <b>N</b> | <b>HR<br/>(95% CI)<br/>(EOS)</b> |
| PFS, months  |                                  | 19       |                                  | 21       |                                  |
| Median (range)   | 6.1 (1.3-24.0)                   |          | 3.5 (0.3-13.5)                   |          | 0.36                             |
| Mean (SD)  | 10.4 (9.38)                      |          | 3.7 (3.17)                       |          | (0.18, 0.73)                     |
| OS, months   |                                  | 19       |                                  | 21       |                                  |
| Median (range)   | 14.5 (1.8-24.0)                  |          | 7.8 (1.2-24.0)                   |          | 0.56                             |
| Mean (SD)  | 14.3 (9.05)                      |          | 10.4 (7.98)                      |          | (0.26, 1.20)                     |
| Time to response, months   |                                  | 8        |                                  | 3        |                                  |
| Median (range)   | 2.2 (1.7-4.2)                    |          | 1.8 (1.6-2.8)                    |          | NE                               |
| Mean (SD)  | 2.6 (0.96)                       |          | 2.1 (0.65)                       |          |                                  |
| Time to complete response, months  |                                  | 3        |                                  | 1        |                                  |
| Median (range)   | 2.4 (2.0-3.6)                    |          | 3.6 (3.6-3.6)                    |          | NE                               |
| Mean (SD)  | 2.7 (0.83)                       |          | 3.6 (NE)                         |          |                                  |
| Duration of response, months   |                                  | 8        |                                  | 3        |                                  |
| Median (range)   | 5.5 (3.0-21.2)                   |          | 4.8 (0.0-6.0)                    |          | NE                               |
| Mean (SD)  | 10.4 (8.67)                      |          | 3.6 (3.18)                       |          |                                  |
| Abbreviations used in table: CR, complete response; CRu, unconfirmed complete response; ORR, overall response rate; OS, overall survival; PFS, progression-free survival; SD, standard deviation; NE, Not Evaluable. |                                  |          |                                  |          |                                  |



Means for the time to event analyses are arithmetic means of the durations.

### Question A3

**Table A3-1. PIX301 patient baseline demographic characteristics (consensus-determined HITT B-cell analysis set, all lines of therapy)**

|   | <b>Pixantrone<br/>(N=50)</b> | <b>Comparator<br/>(N=47)</b> | <b>p-value</b> |
|---|------------------------------|------------------------------|----------------|
| <b>Age at Randomisation (years)</b>                 |                              |                              |                |
| Mean (SD)   | 59.6 (12.4)                  | 55.3 (13.4)                  | 0.104          |
| Median (range)                                      | 60.0 (28-80)                 | 58.0 (26-77)                 |                |
| <b>Age Category at Randomisation (years), n (%)</b> |                              |                              | 0.056          |
| 18 to <30   | 2 (4.0%)                     | 2 (4.3%)                     | 1.000          |
| 30 to <40   | 2 (4.0%)                     | 8 (17.0%)                    | 0.047          |
| 40 to <50   | 8 (16.0%)                    | 2 (4.3%)                     | 0.093          |
| 50 to <60   | 11 (22.0%)                   | 12 (25.5%)                   | 0.812          |
| 60 to <70   | 14 (28.0%)                   | 18 (38.3%)                   | 0.388          |
| 70 to <80   | 12 (24.0%)                   | 5 (10.6%)                    | 0.111          |
| ≥80   | 1 (2.0%)                     | 0                            | 1.000          |
| <b>Sex, n (%)</b>                                   |                              |                              | 0.310          |
| Male  | 31 (62.0%)                   | 24 (51.1%)                   |                |
| Female  | 19 (38.0%)                   | 23 (48.9%)                   |                |
| <b>Race, n (%)</b>                                  |                              |                              | 0.471          |
| Caucasian   | 35 (70.0%)                   | 27 (57.4%)                   | 0.213          |
| Black   | 0                            | 0                            |                |
| Asian   | 6 (12.0%)                    | 11 (23.4%)                   | 0.184          |
| Hispanic  | 4 (8.0%)                     | 3 (6.4%)                     | 1.000          |
| Native American                                     | 0                            | 1 (2.1%)                     | 0.485          |
| Other   | 5 (10.0%)                    | 5 (10.6%)                    | 1.000          |
| <b>Baseline ECOG Performance Status, n (%)</b>      |                              |                              | 0.931          |
| 0   | 17 (34.0%)                   | 14 (29.8%)                   | 0.670          |
| 1   | 21 (42.0%)                   | 21 (44.7%)                   | 0.839          |
| 2   | 12 (24.0%)                   | 11 (23.4%)                   | 1.000          |
| 3   | 0                            | 1 (2.1%)                     | 0.485          |

| <b>Geographic Region, n (%)</b>   |               |               | 0.514 |
|---|---------------|---------------|-------|
| North America   | 3 (6.0%)      | 4 (8.5%)      | 0.709 |
| Western Europe  | 16 (32.0%)    | 10 (21.3%)    | 0.259 |
| Rest of World   | 31 (62.0%)    | 33 (70.2%)    | 0.520 |
| <b>Weight (kg)</b>  |               |               |       |
| Mean (SD)   | 70.9 (16.8)   | 66.8 (15.7)   | 0.213 |
| Median (range)  | 70.0 (45-117) | 65.0 (37-105) |       |
| Abbreviations used in table: ECOG, Eastern Cooperative Oncology Group; kg, kilogram; n, number of patients with characteristic; N, number of patients in subgroup; SD, standard deviation |               |               |       |
| Fisher exact test was used to compare proportions between the group and a two-sided student's t-test was used in the comparison of means between treatment groups.                        |               |               |       |

**Table A3-2. PIX301 patient baseline history (consensus-determined HITT B-cell analysis set, all lines of therapy)**

|   | <b>Pixantrone<br/>(N=50)</b> | <b>Comparator<br/>(N=47)</b> | <b>p-value</b> |
|---|------------------------------|------------------------------|----------------|
| Overall   |                              |                              | 0.559          |
| Diffuse large B-cell lymphoma   | 42 (84.0%)                   | 40 (85.1%)                   | 1.000          |
| Transformed indolent lymphoma   | 7 (14.0%)                    | 4 (8.5%)                     | 0.526          |
| Follicular lymphoma grade III   | 0                            | 2 (4.3%)                     | 0.232          |
| Peripheral T-cell lymphoma NOC  | 1 (2.0%)                     | 1 (2.1%)                     | 1.000          |
| Anaplastic large cell lymphoma/null cell/primary systemic   | 0                            | 0                            |                |
| Abbreviations used in table: N, number of patients in subgroup; NOC, not otherwise classified; SD, standard deviation |                              |                              |                |
| Fisher exact test was used to compare proportions between the group   |                              |                              |                |

**Table A3-3. PIX301 patient baseline disease characteristics (consensus-determined HITT B-cell analysis set, all lines of therapy)**

|   | Pixantrone (N=50) | Comparator (N=47) | p-value |
|---|-------------------|-------------------|---------|
| <b>Duration of NHL (months)</b>   |                   |                   |         |
| Mean (SD)   | 43.1 (36.2)       | 40.8 (41.6)       | 0.779   |
| Median (range)  | 32.0 (7-160)      | 30.9 (0-223)      |         |
| <b>Ann Arbor Stage of NHL, n (%)</b>  |                   |                   | 1.000   |
| I/II  | 13 (26.0%)        | 12 (25.5%)        |         |
| III/IV  | 37 (74.0%)        | 35 (74.5%)        |         |
| <b>International Prognostic Index, n (%)</b>  |                   |                   | 0.817   |
| 0, 1  | 12 (24.0%)        | 13 (27.7%)        |         |
| ≥2  | 38 (76.0%)        | 34 (72.3%)        |         |
| <b>Number of Extranodal Sites, n (%)</b>  |                   |                   | 1.000   |
| 0   | 25 (50.0%)        | 24 (51.1%)        | 1.000   |
| ≥1  | 24 (48.0%)        | 22 (46.8%)        | 1.000   |
| Missing   | 1 (2.0%)          | 1 (2.1%)          | 1.000   |
| <b>Time from Last Chemotherapy to Randomisation (months)</b>  |                   |                   |         |
| Mean (SD)   | 12.6 (15.0)       | 10.2 (7.11)       | 0.307   |
| Median (range)  | 8.5 (1-86)        | 8.0 (1-30)        |         |
| Abbreviations used in table: n, number of patients with outcome; N, number of patients in subgroup; SD, standard deviation  |                   |                   |         |
| Fisher exact test was used to compare proportions between the groups, and a two-sided student's t test was used in the comparison of means between treatment groups. As these are post-hoc explanatory subset analyses, p-values are for reference purposes only. |                   |                   |         |

**Table A3-4. PIX301 Prior NHL treatment (consensus-determined HITT B-Cell Analysis Set, all lines of therapy)**

|   | <b>Pixantrone<br/>(N=50)</b> | <b>Comparator<br/>(N=47)</b> | <b>p-value</b> |
|---|------------------------------|------------------------------|----------------|
| <b>Chemotherapy regimens</b>                            |                              |                              |                |
| Mean (SD)   | 3.0 (1.4)                    | 2.9 (1.2)                    | 0.754          |
| Median (range)  | 3.0 (2-9)                    | 3.0 (2-8)                    |                |
| <b>Number of chemotherapy regimens</b>                  |                              |                              | 1.000          |
| 2   | 22 (44.0%)                   | 20 (42.6%)                   | 1.000          |
| 3-5   | 25 (50.0%)                   | 24 (51.1%)                   | 1.000          |
| ≥6  | 3 (6.0%)                     | 3 (6.4%)                     | 1.000          |
| <b>Category of prior chemotherapy</b>                   |                              |                              |                |
| Biologics (anti-CD20 mAB)                               | 30 (60.0%)                   | 26 (55.3%)                   | 1.000          |
| Anthracyclines/anthracenediones                         | 50 (100.0%)                  | 47 (100.0%)                  | NA             |
| Other topoisomerase inhibitors (a)                      | 38 (76.0%)                   | 37 (78.7%)                   | 0.811          |
| Platinum-based agents                                   | 27 (54.0%)                   | 25 (53.2%)                   | 1.000          |
| Antimetabolites   | 33 (66.0%)                   | 30 (63.8%)                   | 0.835          |
| Alkylating agents                                       | 50 (100.0%)                  | 47 (100.0%)                  | NA             |
| Spindle poison/mitotic inhibitors (SPs/MIs)             | 50 (100.0%)                  | 46 (97.9%)                   | 0.485          |
| Corticosteroids   | 47 (94.0%)                   | 43 (91.5%)                   | 0.709          |
| Other (b)   | 15 (30.0%)                   | 18 (38.3%)                   | 0.401          |
| <b>Disease response category</b>                        |                              |                              | 0.242          |
| Refractory  | 32 (64.0%)                   | 26 (55.3%)                   | 0.414          |
| Relapsed  | 16 (32.0%)                   | 21 (44.7%)                   | 0.217          |
| Missing   | 2 (4.0%)                     | 0                            | 0.495          |
| <b>Patients who had radiotherapy, n (%)</b>             |                              |                              |                |
|   | 25 (50.0%)                   | 24 (51.1%)                   | 1.000          |
| <b>Patients who received SCT, n (%)</b>                 |                              |                              |                |
|   | 7 (14.0%)                    | 8 (17.0%)                    | 0.782          |
| <b>Anthracycline dose equivalent (mg/m<sup>2</sup>)</b> |                              |                              |                |
| Mean (SD)   | 286.0 (95.9)                 | 324.5 (102.7)                | 0.060          |
| Median (range)  | 290.5 (78-472)               | 312.7 (75-516)               |                |

(a) Other topoisomerase inhibitors were etoposide and teniposide

(b) "Other" includes targeted therapies, non-classified anticancer therapies and supportive therapies

Abbreviations used in table: n, number of patients with prior therapy; N, number of patients in subgroup; NA, not applicable; SCT, stem cell therapy; SD, standard deviation

Fisher exact test was used to compare proportions between the groups, and a two-sided student's t test was used in the comparison of means between treatment groups.

### Question A8

Table A8-1 summarises the subgroup analyses for CR/CRu rate to the end of treatment for the HITT B-Cell analysis set.

**Table A8-1 Subgroup analysis of CR/CRu rate to the end of treatment for the consensus-determined HITT B-cell analysis set**

| Subgroup  | CR/CRu Rate to EOT |    |                    |    |                        |
|---|--------------------|----|--------------------|----|------------------------|
|   | Pixantrone         |    | Physician's choice |    | % difference (95% CI)  |
|   | n                  | N  | n                  | N  |                        |
| <b>Prior stem cell transplant</b>   |                    |    |                    |    |                        |
| Yes   | 0 (0.0%)           | 7  | 1 (12.5%)          | 8  | -12.5% (-35.4%, 10.4%) |
| No  | 8 (18.6%)          | 43 | 2 (5.1%)           | 39 | 13.5% (-0.1%, 27.0%)   |
| <b>Prior rituximab</b>  |                    |    |                    |    |                        |
| Yes   | 5 (16.7%)          | 30 | 2 (7.7%)           | 26 | 9.0% (-7.8%, 25.8%)    |
| No  | 3 (15.0%)          | 20 | 1 (4.8%)           | 21 | 10.2% (-7.9%, 28.3%)   |
| <b>Patient location</b>   |                    |    |                    |    |                        |
| North America   | 0 (0.0%)           | 3  | 0 (0.0%)           | 4  | 0.0% (0.0%, 0.0%)      |
| Western Europe  | 1 (6.3%)           | 16 | 0 (0.0%)           | 10 | 6.3% (-5.6%, 18.1%)    |
| Rest of the World   | 7 (22.6%)          | 31 | 3 (9.1%)           | 33 | 13.5% (-4.2%, 31.2%)   |
| <b>Age</b>  |                    |    |                    |    |                        |
| ≥65   | 4 (22.2%)          | 18 | 0 (0.0%)           | 13 | 22.2% (3.0%, 41.4%)    |
| <65   | 4 (12.5%)          | 32 | 3 (8.8%)           | 34 | 3.7% (-11.2%, 18.6%)   |
| <b>Gender</b>   |                    |    |                    |    |                        |
| Male  | 4 (12.9%)          | 31 | 2 (8.3%)           | 24 | 4.6% (-11.6%, 20.7%)   |
| Female  | 4 (21.1%)          | 19 | 1 (4.3%)           | 23 | 16.7% (-3.4%, 36.8%)   |
| Abbreviations used in table: CI, confidence interval; EOT, end of treatment; n, number of patients with characteristic; N, number of patients in subgroup |                    |    |                    |    |                        |

Table A8-2 summarises the subgroup analyses for CR/CRu rate to the end of study for the HITT B-Cell analysis set.

**Table A8-2 Subgroup analysis of CR/CRu rate to the end of study for the consensus-determined HITT B-cell analysis set**

| Subgroup  | CR/CRu Rate through EOS |    |                    |    |                       |
|---|-------------------------|----|--------------------|----|-----------------------|
|   | Pixantrone              |    | Physician's choice |    | % difference (95% CI) |
|   | n                       | N  | n                  | N  |                       |
| <b>Prior stem cell transplant</b>   |                         |    |                    |    |                       |
| Yes   | 0 (0.0%)                | 7  | 2 (25.0%)          | 8  | -25.0% (-55.0%, 5.0%) |
| No  | 9 (20.9%)               | 43 | 2 (5.1%)           | 39 | 15.8% (1.8%, 29.8%)   |
| <b>Prior rituximab</b>  |                         |    |                    |    |                       |
| Yes   | 6 (20.0%)               | 30 | 3 (11.5%)          | 26 | 8.5% (-10.4%, 27.3%)  |
| No  | 3 (15.0%)               | 20 | 1 (4.8%)           | 21 | 10.2% (-7.9%, 28.3%)  |
| <b>Patient location</b>   |                         |    |                    |    |                       |
| North America   | 0 (0.0%)                | 3  | 0 (0.0%)           | 4  | 0.0% (0.0%, 0.0%)     |
| Western Europe  | 1 (6.3%)                | 16 | 1 (10.0%)          | 10 | -3.8% (-25.8%, 18.3%) |
| Rest of the World   | 8 (25.8%)               | 31 | 3 (9.1%)           | 33 | 16.7% (-1.5%, 35.0%)  |
| <b>Age</b>  |                         |    |                    |    |                       |
| ≥65   | 4 (22.2%)               | 18 | 0 (0.0%)           | 13 | 22.2% (3.0%, 41.4%)   |
| <65   | 5 (15.6%)               | 32 | 4 (11.8%)          | 34 | 3.9% (-12.7%, 20.5%)  |
| <b>Gender</b>   |                         |    |                    |    |                       |
| Male  | 4 (12.9%)               | 31 | 2 (8.3%)           | 24 | 4.6% (-11.6%, 20.7%)  |
| Female  | 5 (26.3%)               | 19 | 2 (8.7%)           | 23 | 17.6% (-5.3%, 40.5%)  |
| Abbreviations used in table: CI, confidence interval; EOS, end of study; n, number of patients with characteristic; N, number of patients in subgroup |                         |    |                    |    |                       |

Table A8-3 summarises the subgroup analyses for overall response rate to the end of treatment for the HITT B-Cell analysis set.

**Table A8-3 Subgroup analysis of overall response rate to the end of treatment for the consensus-determined HITT B-cell analysis set**

| Subgroup  | Overall Response Rate through EOT |    |                    |    |                          |
|---|-----------------------------------|----|--------------------|----|--------------------------|
|   | Pixantrone                        |    | Physician's choice |    | % difference<br>(95% CI) |
|   | n                                 | N  | n                  | N  |                          |
| <b>Prior stem cell transplant</b>   |                                   |    |                    |    |                          |
| Yes   | 0 (0.0%)                          | 7  | 3 (37.5%)          | 8  | -37.5% (-71.0%, -4.0%)   |
| No  | 17(39.5%)                         | 43 | 5 (12.8%)          | 39 | 26.7% (8.7%, 44.7%)      |
| <b>Prior rituximab</b>  |                                   |    |                    |    |                          |
| Yes   | 9 (30.0%)                         | 30 | 5 (19.2%)          | 26 | 10.8% (-11.6%, 33.1%)    |
| No  | 8 (40.0%)                         | 20 | 3 (14.3%)          | 21 | 25.7% (-0.5%, 51.9%)     |
| <b>Patient location</b>   |                                   |    |                    |    |                          |
| North America   | 1 (33.3%)                         | 3  | 0 (0.0%)           | 4  | 33.3% (-20.0%, 86.7%)    |
| Western Europe  | 2 (12.5%)                         | 16 | 3 (30.0%)          | 10 | -17.5% (-50.2%, 15.2%)   |
| Rest of the World   | 14 (45.2%)                        | 31 | 5 (15.2%)          | 33 | 30.0% (8.6%, 51.4%)      |
| <b>Age</b>  |                                   |    |                    |    |                          |
| ≥65   | 8 (44.4%)                         | 18 | 1 (7.7%)           | 13 | 36.8% (9.6%, 63.9%)      |
| <65   | 9 (28.1%)                         | 32 | 7 (20.6%)          | 34 | 7.5% (-13.1%, 28.2%)     |
| <b>Gender</b>   |                                   |    |                    |    |                          |
| Male  | 7 (22.6%)                         | 31 | 4 (16.7%)          | 24 | 5.9% (-15.0%, 26.9%)     |
| Female  | 10 (52.6%)                        | 19 | 4 (17.4%)          | 23 | 35.2% (8.0%, 62.5%)      |
| Abbreviations used in table: CI, confidence interval; EOT, end of treatment; n, number of patients with characteristic; N, number of patients in subgroup |                                   |    |                    |    |                          |

Table A8-4 summarises the subgroup analyses for overall response rate to the end of study for the HITT B-Cell analysis set.

**Table A8-4 Subgroup analysis of overall response rate to the end of study for the HITT B-cell analysis set**

| Subgroup  | Overall Response Rate through EOS |    |                    |    |                        |
|---|-----------------------------------|----|--------------------|----|------------------------|
|   | Pixantrone                        |    | Physician's choice |    | % difference (95% CI)  |
|   | n                                 | N  | n                  | N  |                        |
| <b>Prior stem cell transplant</b>   |                                   |    |                    |    |                        |
| Yes   | 0 (0.0%)                          | 7  | 3 (37.5%)          | 8  | -37.5% (-71.0%, -4.0%) |
| No  | 18 (41.9%)                        | 43 | 5 (12.8%)          | 39 | 29.0% (10.9%, 47.1%)   |
| <b>Prior rituximab</b>  |                                   |    |                    |    |                        |
| Yes   | 9 (30.0%)                         | 30 | 5 (19.2%)          | 26 | 10.8% (-11.6%, 33.1%)  |
| No  | 9 (45.0%)                         | 20 | 3 (14.3%)          | 21 | 30.7% (4.3%, 57.2%)    |
| <b>Patient location</b>   |                                   |    |                    |    |                        |
| North America   | 1 (33.3%)                         | 3  | 0 (0.0%)           | 4  | 33.3% (-20.0%, 86.7%)  |
| Western Europe  | 2 (12.5%)                         | 16 | 3 (30.0%)          | 10 | -17.5% (-50.2%, 15.2%) |
| Rest of the World   | 15 (48.4%)                        | 31 | 5 (15.2%)          | 33 | 33.2% (11.8%, 54.7%)   |
| <b>Age</b>  |                                   |    |                    |    |                        |
| ≥65   | 8 (44.4%)                         | 18 | 1 (7.7%)           | 13 | 36.8% (9.6%, 63.9%)    |
| <65   | 10 (31.3%)                        | 32 | 7 (20.6%)          | 34 | 10.7% (-10.4%, 31.7%)  |
| <b>Gender</b>   |                                   |    |                    |    |                        |
| Male  | 8 (25.8%)                         | 31 | 4 (16.7%)          | 24 | 9.1% (-12.3%, 30.6%)   |
| Female  | 10 (52.6%)                        | 19 | 4 (17.4%)          | 23 | 35.2% (8.0%, 62.5%)    |
| Abbreviations used in table: CI, confidence interval; EOS, end of study; n, number of patients with characteristic; N, number of patients in subgroup |                                   |    |                    |    |                        |



Table A8-5 summarises the subgroup analyses for progression-free survival for the consensus-determined HITT B-Cell analysis set.

**Table A8-5 Subgroup analysis of progression-free survival for the HITT B-cell analysis set**

| Subgroup   | Progression-Free Survival |                            |
|--|---------------------------|----------------------------|
|  | Pixantrone<br>N=50        | Physician's<br>choice N=47 |
|  | Hazard Ratio (95% CI)     |                            |
| <b>Prior stem cell transplant</b>  |                           |                            |
| Yes  | 1.03 (0.34, 3.09)         |                            |
| No   | 0.43 (0.27, 0.69)         |                            |
| <b>Prior rituximab</b>   |                           |                            |
| Yes  | 0.66 (0.38, 1.14)         |                            |
| No   | 0.35 (0.17, 0.70)         |                            |
| <b>Patient location</b>  |                           |                            |
| North America  | 0.00 (0.00, NE)           |                            |
| Western Europe   | 1.23 (0.54, 2.81)         |                            |
| Rest of the World  | 0.35 (0.20, 0.61)         |                            |
| <b>Age (years)</b>   |                           |                            |
| ≥65  | 0.50 (0.23, 1.08)         |                            |
| <65  | 0.52 (0.30, 0.87)         |                            |
| <b>Gender</b>  |                           |                            |
| Male   | 0.53 (0.29, 0.96)         |                            |
| Female   | 0.48 (0.25, 0.93)         |                            |
| Abbreviations used in table: CI, confidence interval; N, number of patients in subgroup; NE, not evaluable |                           |                            |

Table A8-6 summarises the subgroup analyses for overall survival for the consensus-determined HITT B-Cell analysis set.

**Table A8-6 Subgroup analysis of overall survival for the HITT B-cell analysis set**

| Subgroup                          | Overall Survival      |                            |
|-----------------------------------|-----------------------|----------------------------|
|                                   | Pixantrone<br>N=50    | Physician's<br>choice N=47 |
|                                   | Hazard Ratio (95% CI) |                            |
| <b>Prior stem cell transplant</b> |                       |                            |
| Yes                               | 0.86 (0.29, 2.60)     |                            |

|  |                   |
|--|-------------------|
| No   | 0.66 (0.40, 1.09) |
| <b>Prior rituximab</b>   |                   |
| Yes  | 0.85 (0.48, 1.50) |
| No   | 0.52 (0.24, 1.11) |
| <b>Patient location</b>  |                   |
| North America  | 0.00 (0.00, NE)   |
| Western Europe   | 1.73 (0.70, 4.32) |
| Rest of the World  | 0.47 (0.26, 0.85) |
| <b>Age (years)</b>   |                   |
| ≥65  | 0.82 (0.37, 1.79) |
| <65  | 0.63 (0.36, 1.12) |
| <b>Gender</b>  |                   |
| Male   | 1.01 (0.56, 1.84) |
| Female   | 0.45 (0.22, 0.94) |
| Abbreviations used in table: CI, confidence interval; N, number of patients in subgroup; NE, not evaluable |                   |

### Question B1

The analyses are updates of the ones presented in appendix B and C and section 7.9.3 of the original submission documents for the other patient populations.

Table B1-1 displays the data that populated the Kaplan-Meier curves for overall survival and progression-free survival in consensus-determined aggressive B-cell lymphoma.

**Table B1-1. Kaplan-Meier data for consensus-determined aggressive B-cell subpopulation**

| Cycle | Pixantrone                |                  |                           | Physician's choice        |                  |                           |
|-------|---------------------------|------------------|---------------------------|---------------------------|------------------|---------------------------|
|       | Progression-free Survival | Overall Survival | Treatment Discontinuation | Progression-free Survival | Overall Survival | Treatment Discontinuation |
| 0     | 1.0000                    | 1.0000           | 1.0000                    | 1.0000                    | 1.0000           | 1.0000                    |
| 1     | 1.0000                    | 1.0000           | 1.0000                    | 0.9783                    | 0.9787           | 0.8222                    |
| 2     | 1.0000                    | 1.0000           | 0.9000                    | 0.9130                    | 0.9570           | 0.8222                    |
| 3     | 1.0000                    | 1.0000           | 0.8000                    | 0.9130                    | 0.9570           | 0.8222                    |
| 4     | 0.9796                    | 0.9800           | 0.8000                    | 0.8478                    | 0.9352           | 0.7556                    |
| 5     | 0.9166                    | 0.9200           | 0.8000                    | 0.8043                    | 0.8917           | 0.6444                    |
| 6     | 0.8947                    | 0.9200           | 0.8000                    | 0.8043                    | 0.8482           | 0.6000                    |
| 7     | 0.8947                    | 0.9000           | 0.7600                    | 0.7602                    | 0.8265           | 0.5556                    |

|    |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|
| 8  | 0.8729 | 0.8800 | 0.6800 | 0.6932 | 0.8265 | 0.5333 |
| 9  | 0.8074 | 0.8200 | 0.6000 | 0.5750 | 0.8265 | 0.4444 |
| 10 | 0.7201 | 0.8000 | 0.5600 | 0.5510 | 0.8047 | 0.3778 |
| 11 | 0.6765 | 0.8000 | 0.5600 | 0.5510 | 0.8047 | 0.3778 |
| 12 | 0.6765 | 0.8000 | 0.5400 | 0.5510 | 0.8047 | 0.3556 |
| 13 | 0.6765 | 0.7795 | 0.5400 | 0.5020 | 0.7395 | 0.2667 |
| 14 | 0.6547 | 0.7590 | 0.4800 | 0.4769 | 0.6960 | 0.2667 |
| 15 | 0.6329 | 0.7385 | 0.4200 | 0.4518 | 0.6960 | 0.2444 |
| 16 | 0.6329 | 0.7179 | 0.4000 | 0.3765 | 0.6960 | 0.1556 |
| 17 | 0.6329 | 0.6974 | 0.3800 | 0.3765 | 0.6742 | 0.1333 |
| 18 | 0.6110 | 0.6974 | 0.3600 | 0.3243 | 0.6307 | 0.1333 |
| 19 | 0.6110 | 0.6974 | 0.3600 | 0.2973 | 0.6307 | 0.1333 |
| 20 | 0.6110 | 0.6974 | 0.3400 | 0.2703 | 0.5872 | 0.0889 |
| 21 | 0.6110 | 0.6974 | 0.3400 | 0.2703 | 0.5872 | 0.0889 |
| 22 | 0.6110 | 0.6769 | 0.3400 | 0.2433 | 0.5872 |        |
| 23 | 0.5884 | 0.6564 | 0.1800 | 0.2433 | 0.5872 |        |
| 24 | 0.5884 | 0.6564 | 0.0800 | 0.2433 | 0.5655 |        |
| 25 | 0.5205 | 0.6359 | 0.0800 | 0.2433 | 0.5437 |        |
| 26 | 0.4752 | 0.5949 | 0.0600 | 0.2433 | 0.5437 |        |
| 27 | 0.4515 | 0.5949 | 0.0200 | 0.2433 | 0.5002 |        |
| 28 | 0.4515 | 0.5744 | 0.0200 | 0.1892 | 0.4785 |        |
| 29 | 0.4040 | 0.5744 | 0.0200 | 0.1892 | 0.4785 |        |
| 30 | 0.4040 | 0.5538 | 0.0200 | 0.1892 | 0.4785 |        |
| 31 | 0.4040 | 0.5333 | 0.0200 | 0.1577 | 0.4350 |        |
| 32 | 0.4040 | 0.5333 | 0.0200 | 0.1577 | 0.4350 |        |
| 33 | 0.4040 | 0.5128 | 0.0200 | 0.1577 | 0.4350 |        |
| 34 | 0.4040 | 0.5128 |        | 0.0946 | 0.3915 |        |
| 35 | 0.4040 | 0.5128 |        | 0.0946 | 0.3915 |        |
| 36 | 0.4040 | 0.4923 |        | 0.0946 | 0.3697 |        |
| 37 | 0.4040 | 0.4923 |        | 0.0946 | 0.3480 |        |
| 38 | 0.4040 | 0.4923 |        | 0.0946 | 0.3262 |        |
| 39 | 0.3770 | 0.4923 |        | 0.0946 | 0.3262 |        |
| 40 | 0.3770 | 0.4923 |        | 0.0946 | 0.3262 |        |
| 41 | 0.3770 | 0.4923 |        | 0.0946 | 0.3045 |        |
| 42 | 0.3770 | 0.4923 |        | 0.0946 | 0.3045 |        |

|    |        |        |  |        |        |  |
|----|--------|--------|--|--------|--------|--|
| 43 | 0.3770 | 0.4923 |  | 0.0946 | 0.3045 |  |
| 44 | 0.3770 | 0.4923 |  | 0.0946 | 0.3045 |  |
| 45 | 0.3480 | 0.4718 |  | 0.0631 | 0.2827 |  |
| 46 | 0.3480 | 0.4718 |  | 0.0631 | 0.2827 |  |
| 47 | 0.3164 | 0.4718 |  | 0.0631 | 0.2827 |  |
| 48 | 0.3164 | 0.4513 |  | 0.0631 | 0.2827 |  |
| 49 | 0.3164 | 0.4513 |  | 0.0631 | 0.2827 |  |
| 50 | 0.3164 | 0.4513 |  | 0.0631 | 0.2827 |  |
| 51 | 0.3164 | 0.4513 |  | 0.0631 | 0.2827 |  |
| 52 | 0.3164 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 53 | 0.2848 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 54 | 0.2848 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 55 | 0.2848 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 56 | 0.2848 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 57 | 0.2848 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 58 | 0.2848 | 0.4103 |  | 0.0631 | 0.2827 |  |
| 59 | 0.2848 | 0.4103 |  | 0.0315 | 0.2827 |  |
| 60 | 0.2848 | 0.4103 |  |        |        |  |
| 61 | 0.2848 | 0.3897 |  |        |        |  |
| 62 | 0.2848 | 0.3897 |  |        |        |  |
| 63 | 0.2848 | 0.3897 |  |        |        |  |
| 64 | 0.2848 | 0.3692 |  |        |        |  |
| 65 | 0.2848 | 0.3692 |  |        |        |  |
| 66 | 0.2848 | 0.3692 |  |        |        |  |
| 67 | 0.2848 | 0.3487 |  |        |        |  |
| 68 | 0.2848 | 0.3487 |  |        |        |  |
| 69 | 0.2848 | 0.3282 |  |        |        |  |
| 70 | 0.2848 | 0.3282 |  |        |        |  |
| 71 | 0.2848 | 0.3077 |  |        |        |  |
| 72 | 0.2848 | 0.3077 |  |        |        |  |
| 73 | 0.2848 | 0.3077 |  |        |        |  |
| 74 | 0.2848 | 0.3077 |  |        |        |  |
| 75 | 0.2848 | 0.3077 |  |        |        |  |
| 76 | 0.2848 | 0.3077 |  |        |        |  |
| 77 | 0.2848 | 0.2872 |  |        |        |  |

|     |        |        |  |  |  |  |
|-----|--------|--------|--|--|--|--|
| 78  | 0.2848 | 0.2872 |  |  |  |  |
| 79  | 0.2848 | 0.2872 |  |  |  |  |
| 80  | 0.2848 | 0.2872 |  |  |  |  |
| 81  | 0.2848 | 0.2872 |  |  |  |  |
| 82  | 0.2848 | 0.2872 |  |  |  |  |
| 83  | 0.2848 | 0.2872 |  |  |  |  |
| 84  | 0.2531 | 0.2872 |  |  |  |  |
| 85  | 0.2531 | 0.2872 |  |  |  |  |
| 86  | 0.2531 | 0.2872 |  |  |  |  |
| 87  | 0.2531 | 0.2872 |  |  |  |  |
| 88  | 0.2531 | 0.2872 |  |  |  |  |
| 89  | 0.2531 | 0.2872 |  |  |  |  |
| 90  | 0.2531 | 0.2872 |  |  |  |  |
| 91  | 0.2531 | 0.2872 |  |  |  |  |
| 92  | 0.2531 | 0.2872 |  |  |  |  |
| 93  | 0.2531 | 0.2667 |  |  |  |  |
| 94  | 0.2531 | 0.2667 |  |  |  |  |
| 95  | 0.2531 | 0.2667 |  |  |  |  |
| 96  | 0.2531 | 0.2667 |  |  |  |  |
| 97  | 0.2531 | 0.2667 |  |  |  |  |
| 98  | 0.2531 | 0.2667 |  |  |  |  |
| 99  | 0.2531 | 0.2667 |  |  |  |  |
| 100 | 0.2531 | 0.2667 |  |  |  |  |
| 101 | 0.2109 | 0.2667 |  |  |  |  |
| 102 |        |        |  |  |  |  |
| 103 |        |        |  |  |  |  |
| 104 |        |        |  |  |  |  |

Table B1-2 displays the data for parametric fittings relating to overall survival in consensus-determined aggressive B-cell lymphoma with pixantrone and physician's choice of chemotherapy.

**Table B1-2. Parametric fittings of the consensus-determined aggressive B-cell population - overall survival**

|   | Parameter 1 | SE     | Parameter 2 | SE     | Parameter 3 | SE.    | AIC     | BIC     |
|---|-------------|--------|-------------|--------|-------------|--------|---------|---------|
|   | Intercept   |        | Scale       |        | Shape       |        |         |         |
| <b>Pixantrone</b>   |             |        |             |        |             |        |         |         |
| <b>Weibull</b>  | 4.2240      | 0.1852 | 1.1103      | 0.1570 | 0.9006      | 0.1274 | 159.224 | 163.048 |
| <b>Log-normal</b>   | 3.6956      | 0.2030 | 1.3556      | 0.1702 |             |        | 153.759 | 157.583 |
| <b>Log-logistic</b>   | 3.6784      | 0.2069 | 0.8187      | 0.1127 |             |        | 155.496 | 159.320 |
| <b>Generalized Gamma</b>  | 3.0724      | 0.4871 | 1.3266      | 0.2019 | -1.0372     | 0.7295 | 153.787 | 159.523 |
| <b>Physician's choice</b>   |             |        |             |        |             |        |         |         |
| <b>Weibull</b>  | 3.8302      | 0.1745 | 1.0808      | 0.1424 | 0.9252      | 0.1219 | 153.684 | 157.385 |
| <b>Log-normal</b>   | 3.2795      | 0.2036 | 1.3540      | 0.1586 |             |        | 153.130 | 156.831 |
| <b>Log-logistic</b>   | 3.3074      | 0.1952 | 0.7650      | 0.1026 |             |        | 152.231 | 155.931 |
| <b>Generalized Gamma</b>  | 3.5223      | 0.3222 | 1.2462      | 0.1978 | 0.4202      | 0.4652 | 154.304 | 159.854 |
| Abbreviations used in the table: AIC, Akaike Information Criterion; BIC, Bayesian Information Criterion; SE, standard error |             |        |             |        |             |        |         |         |

Figure B1-1 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for overall survival with pixantrone, plotted for the duration of the PIX301 trial.

**Figure B1-1 Parametric fittings of consensus-determined aggressive B-cell population – overall survival with pixantrone, duration of trial**

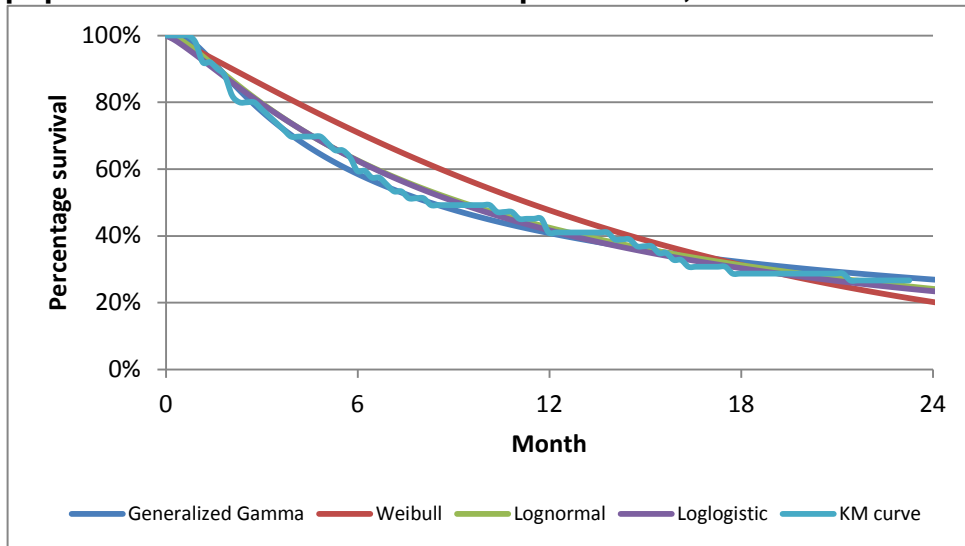


Figure B1-2 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for overall survival with pixantrone, plotted with a long-term projection to 6 years.

**Figure B2-2 Parametric Fittings of consensus-determined aggressive B-cell population – overall survival with pixantrone, long term projection.**

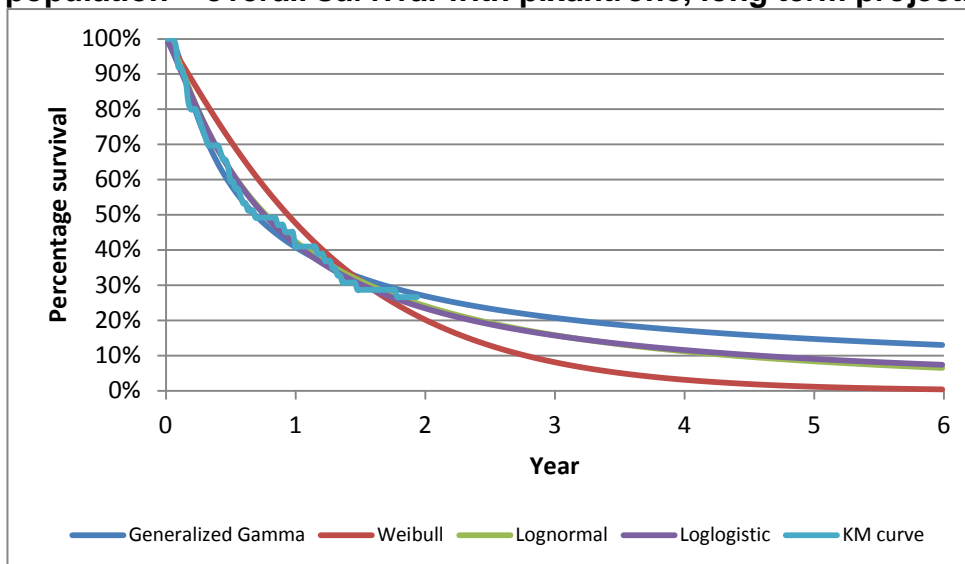


Figure B1-3 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for overall survival in the physician's choice group, plotted for the duration of the PIX301 trial.

**Figure B1-3 Parametric Fittings of consensus-determined aggressive B-cell population – overall survival with physician's choice, duration of trial**

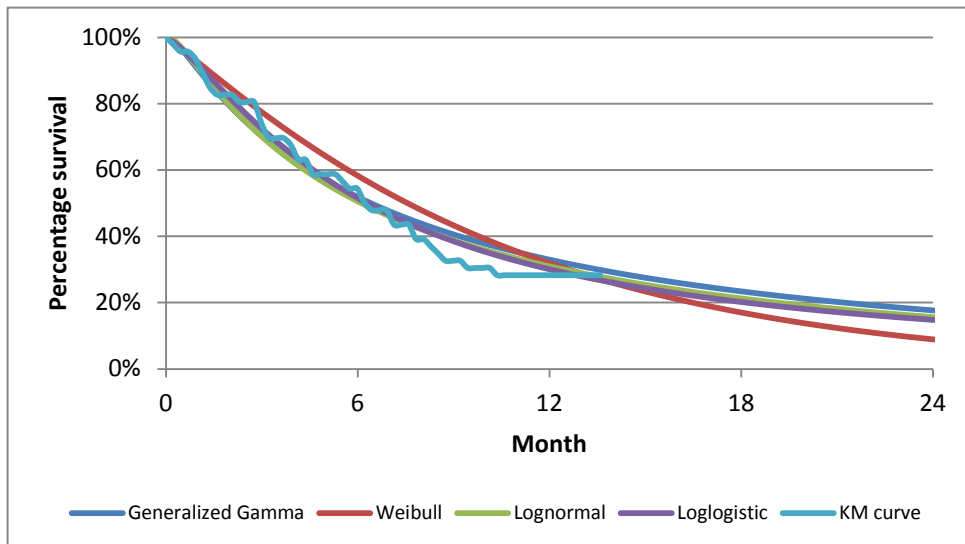


Figure B1-4 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for overall survival in the physician's choice group, plotted with a long-term projection of 6 years.

**Figure B1-4 Parametric Fittings of consensus-determined aggressive B-cell population – overall survival with physician's choice, long-term projection**

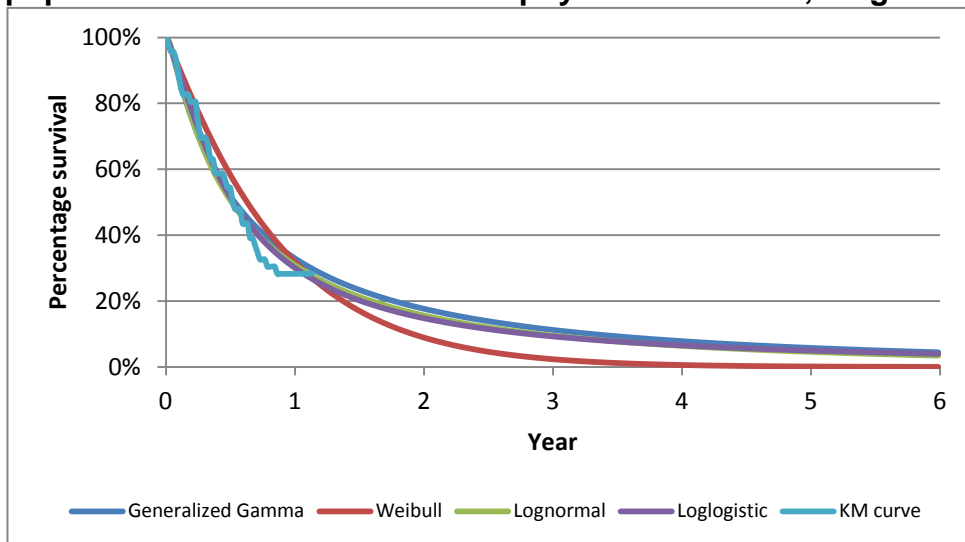




Figure B1-5 displays the resulting Kaplan-Meier curve for overall survival for patients with consensus-determined aggressive B-cell lymphoma. In this figure, pixantrone is represented by “BBR 2778” and physician’s choice by “Chemotherapeutic agent”.

**Figure B1-5 Kaplan-Meier curve for Overall Survival in consensus-determined aggressive B-cell population**

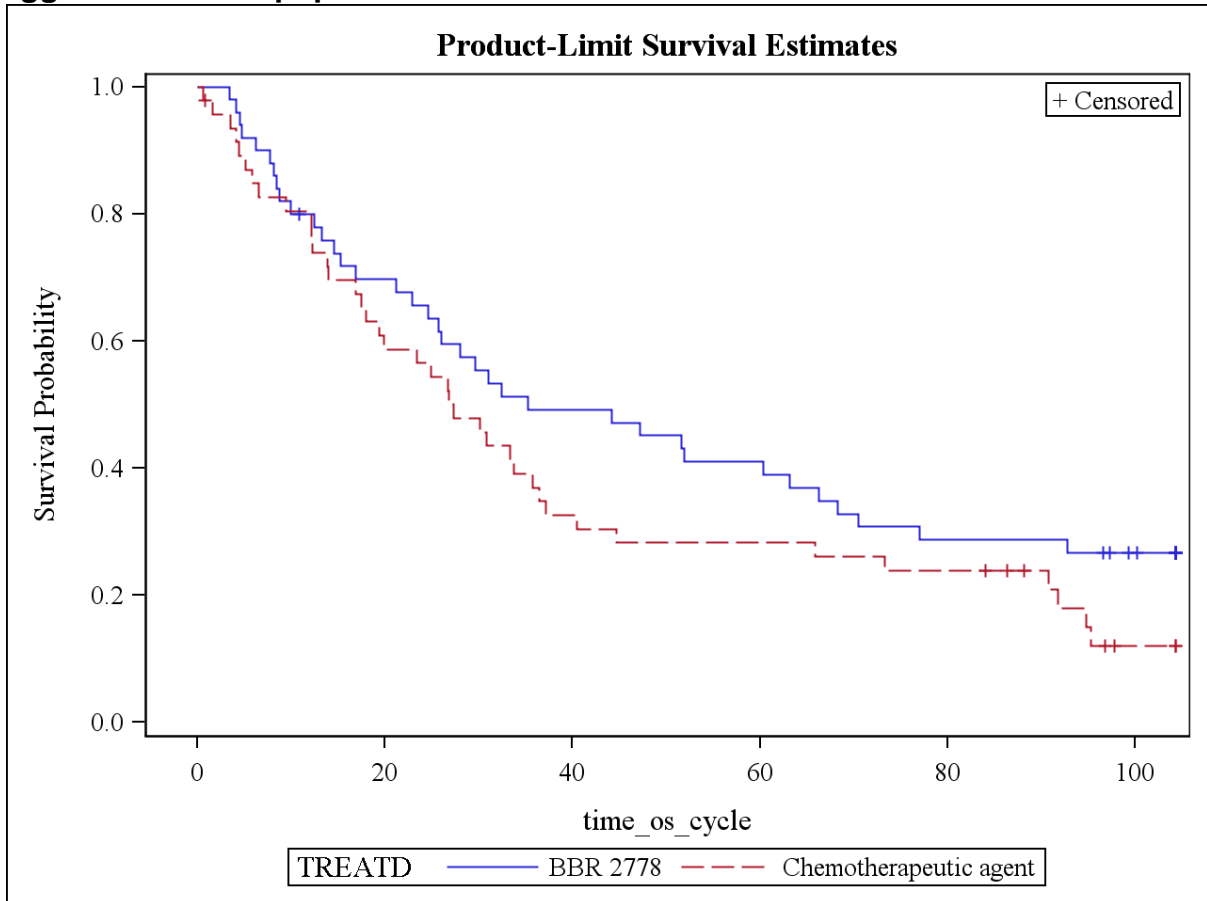


Figure B1-6 displays the negative log of estimated survivor functions for overall survival in the consensus-determined aggressive B-cell population. In this figure, pixantrone is represented by “BBR 2778” and physician’s choice by “Chemotherapeutic agent”.

**Figure B1-6 Overall Survival for consensus-determined aggressive B-cell population - negative log of estimated survivor functions**

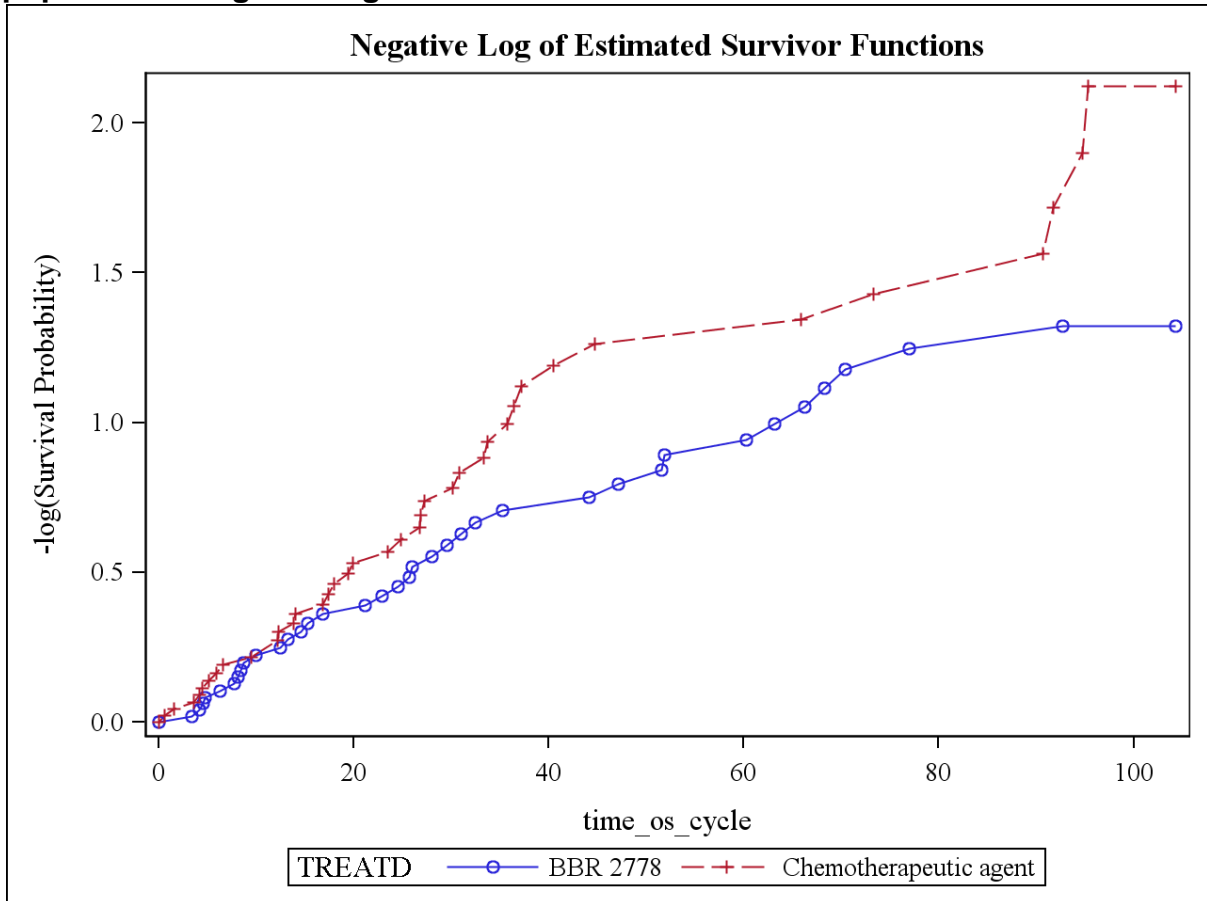


Figure B1-7 displays the Epanechnikov Kernel-smoothed hazard functions for overall survival in the consensus-determined aggressive B-cell population. In this figure, pixantrone is represented by “BBR 2778” and physician’s choice by “Chemotherapeutic agent”.

**Figure B1-7 Overall survival for consensus-determined aggressive B-cell population – Epanechnikov Kernel-smoothed hazard functions**

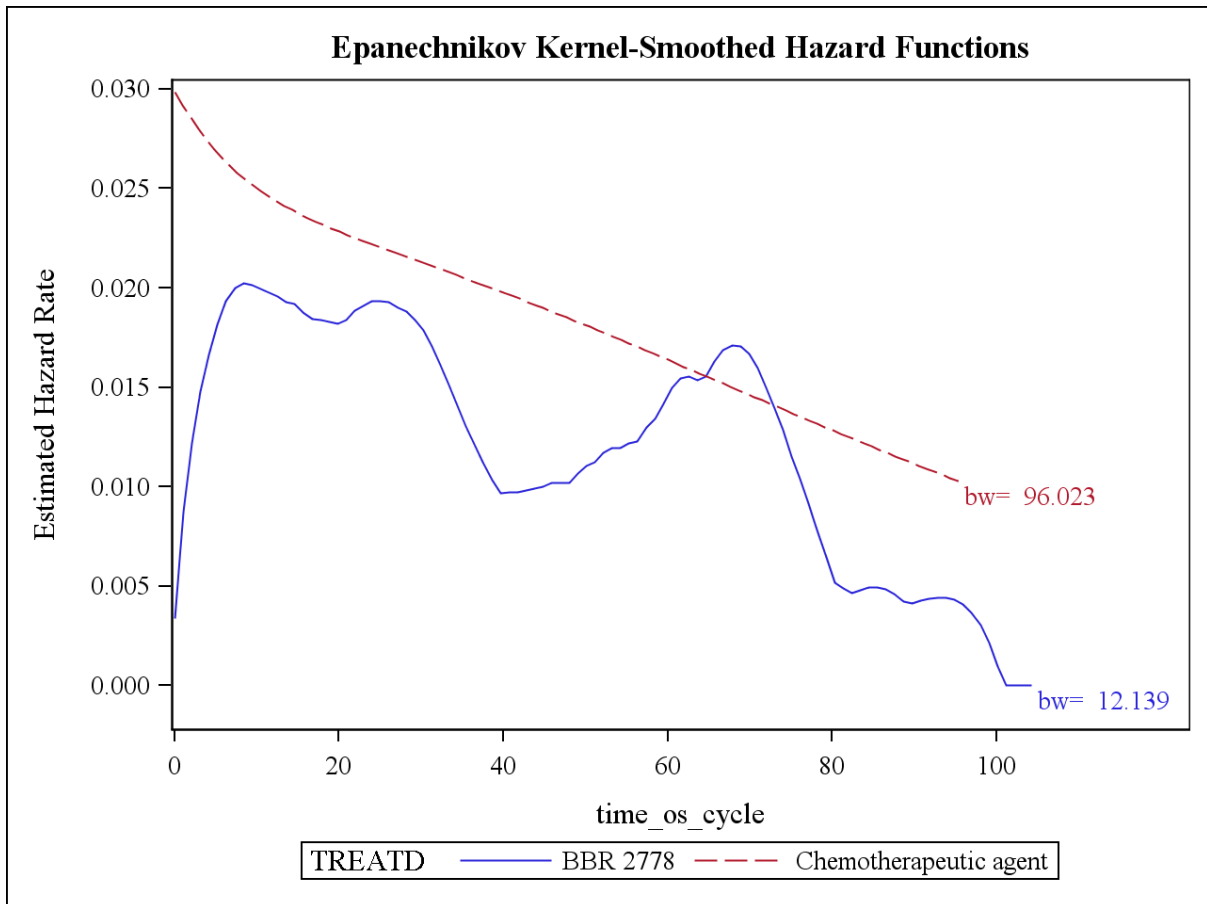


Table B1-3 displays the data for parametric fittings relating to progression-free survival in consensus-determined aggressive B-cell lymphoma. Progression-free survival is defined as absence of death or progressive disease.

**Table B1-3 Parametric fittings of consensus-determined aggressive B-cell population – progression-free survival**

|   | Parameter 1 | SE     | Parameter 2 | SE     | Parameter 3 | SE     | AIC     | BIC     |
|---|-------------|--------|-------------|--------|-------------|--------|---------|---------|
|   | Intercept   |        | Scale       |        | Shape       |        |         |         |
| <b>Pixantrone</b>   |             |        |             |        |             |        |         |         |
| <b>Weibull</b>  | 3.9290      | 0.1936 | 1.1115      | 0.1530 | 0.8997      | 0.1238 | 146.040 | 149.864 |
| <b>Log-normal</b>   | 3.3789      | 0.1962 | 1.2591      | 0.1619 |             |        | 137.673 | 141.497 |
| <b>Log-logistic</b>   | 3.3241      | 0.2018 | 0.7599      | 0.1075 |             |        | 139.514 | 143.338 |
| <b>Generalized Gamma</b>  | 2.4431      | 0.3785 | 1.0101      | 0.2146 | -1.7474     | 0.7649 | 133.779 | 139.515 |
| <b>Physician's choice</b>   |             |        |             |        |             |        |         |         |
| <b>Weibull</b>  | 2.9617      | 0.1582 | 0.9688      | 0.1147 | 1.0323      | 0.1222 | 136.349 | 140.049 |
| <b>Log-normal</b>   | 2.4645      | 0.1699 | 1.1179      | 0.1281 |             |        | 134.511 | 138.211 |
| <b>Log-logistic</b>   | 2.5043      | 0.1594 | 0.6163      | 0.0829 |             |        | 133.009 | 136.710 |
| <b>Generalized Gamma</b>  | 2.6539      | 0.2473 | 1.0538      | 0.1373 | 0.3745      | 0.3734 | 135.555 | 141.105 |
| Abbreviations used in the table: AIC, Akaike Information Criterion; BIC, Bayesian Information Criterion; SE, standard error |             |        |             |        |             |        |         |         |

Figure B1-8 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for progression-free survival with pixantrone, plotted for the duration of the PIX301 trial.

**Figure B1-8 Parametric Fittings of consensus-determined aggressive B-cell population – progression-free survival with pixantrone for duration of trial.**

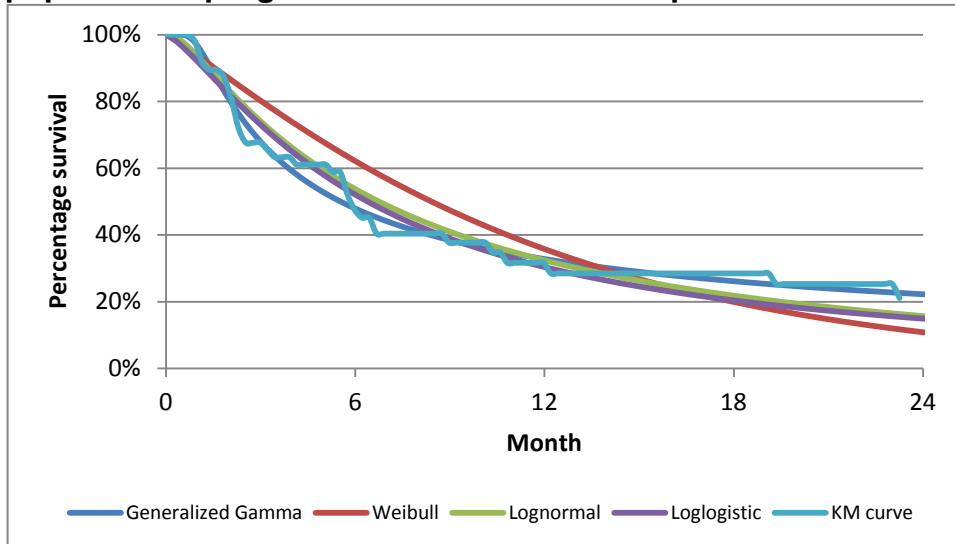


Figure B1-9 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for progression-free survival with pixantrone, plotted with a long-term projection to 6 years.

**Figure B1-9 Parametric fittings of consensus-determined aggressive B-cell population – progression-free survival with pixantrone with long-term projection**

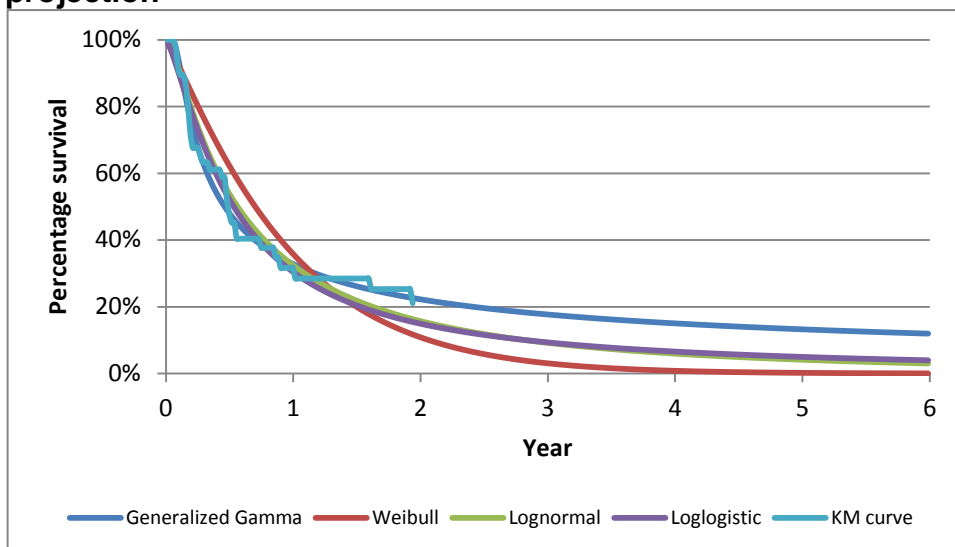


Figure B1-10 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for progression-free survival in the physician's choice group, plotted for the duration of the PIX301 trial. Progression-free is defined as absence of death or disease progression.

**Figure B1-10 Parametric fittings of consensus-determined aggressive B-cell population – progression-free survival with physician's choice for duration of trial**

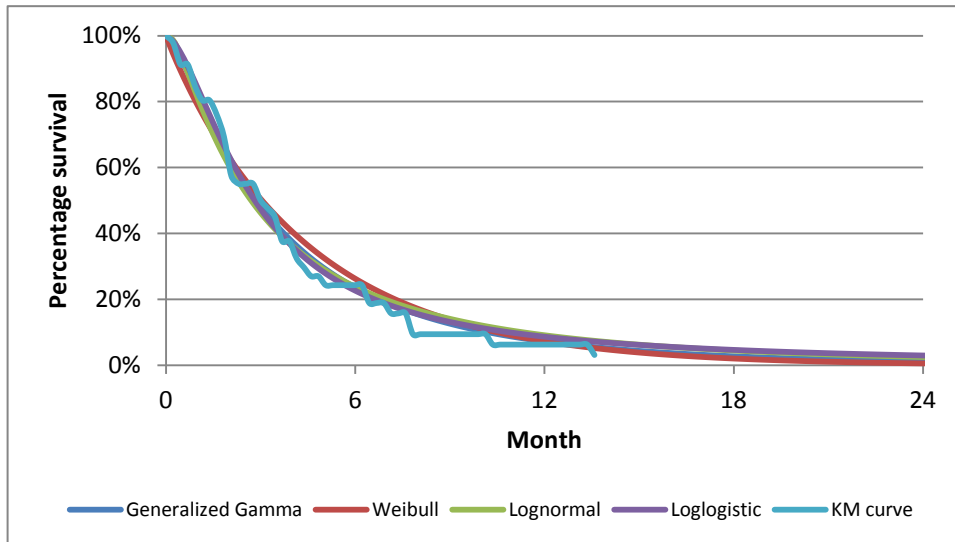


Figure B1-11 displays the parametric fittings of data for the consensus-determined aggressive B-cell lymphoma subgroup for progression-free survival in the physician's choice group, plotted with a long-term projection of 6 years

**Figure B1-11 Parametric fittings of consensus-determined aggressive B-cell population – progression-free survival with physician's choice with long-term projection**

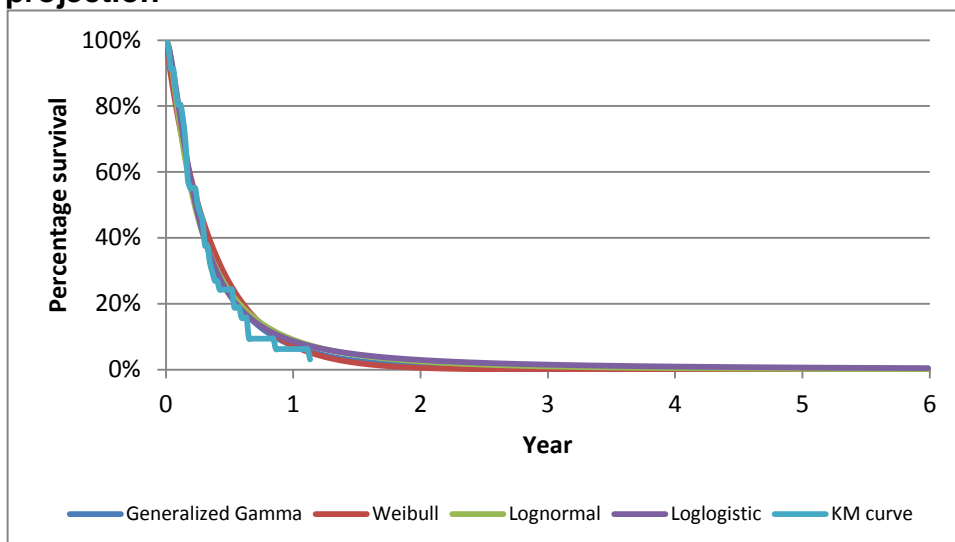


Figure B1-12 displays the resulting Kaplan-Meier curve for progression-free survival for patients with consensus-determined aggressive B-cell lymphoma. In this figure, paxantrone is represented by “BBR 2778” and physician’s choice by “Chemotherapeutic agent”.

**Figure B1-12 Kaplan-Meier curve for Ppogression-free survival in consensus-determined aggressive B-cell population**

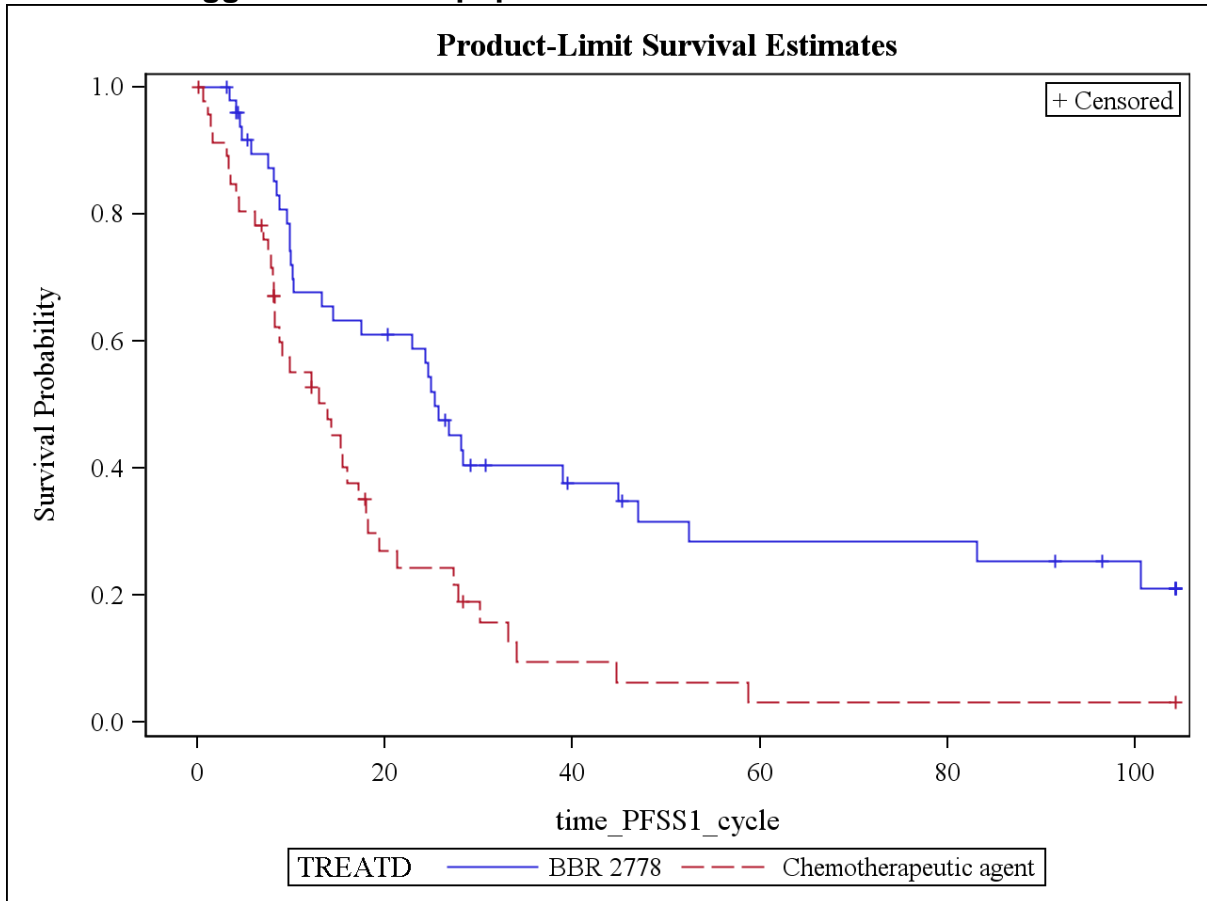


Figure B1-13 displays the negative log of estimated survivor functions for progression-free survival in the consensus-determined aggressive B-cell population. In this figure, pixantrone is represented by “BBR 2778” and physician’s choice by “Chemotherapeutic agent”.

**Figure B1-13 Progression-free survival in consensus-determined aggressive B-cell population - negative log of estimated survivor functions**

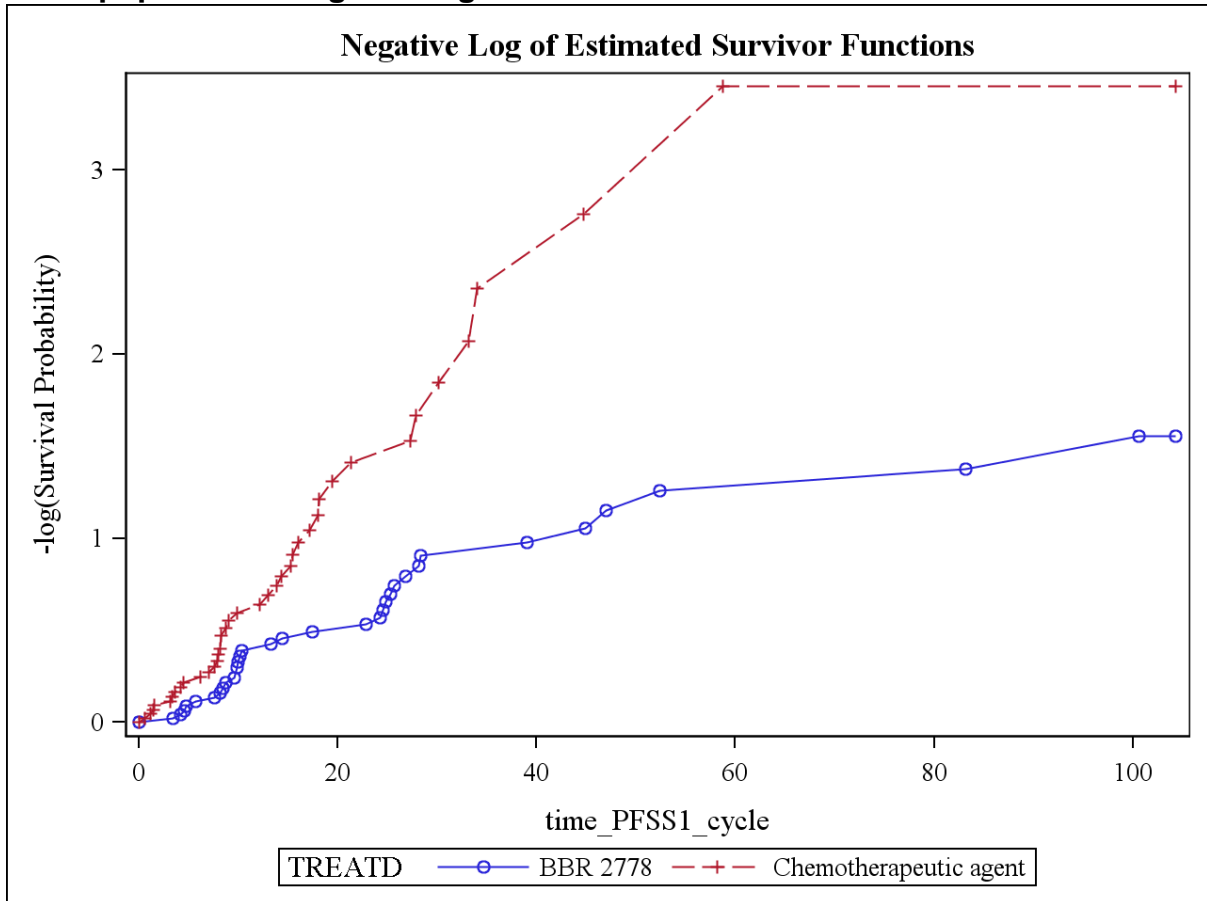
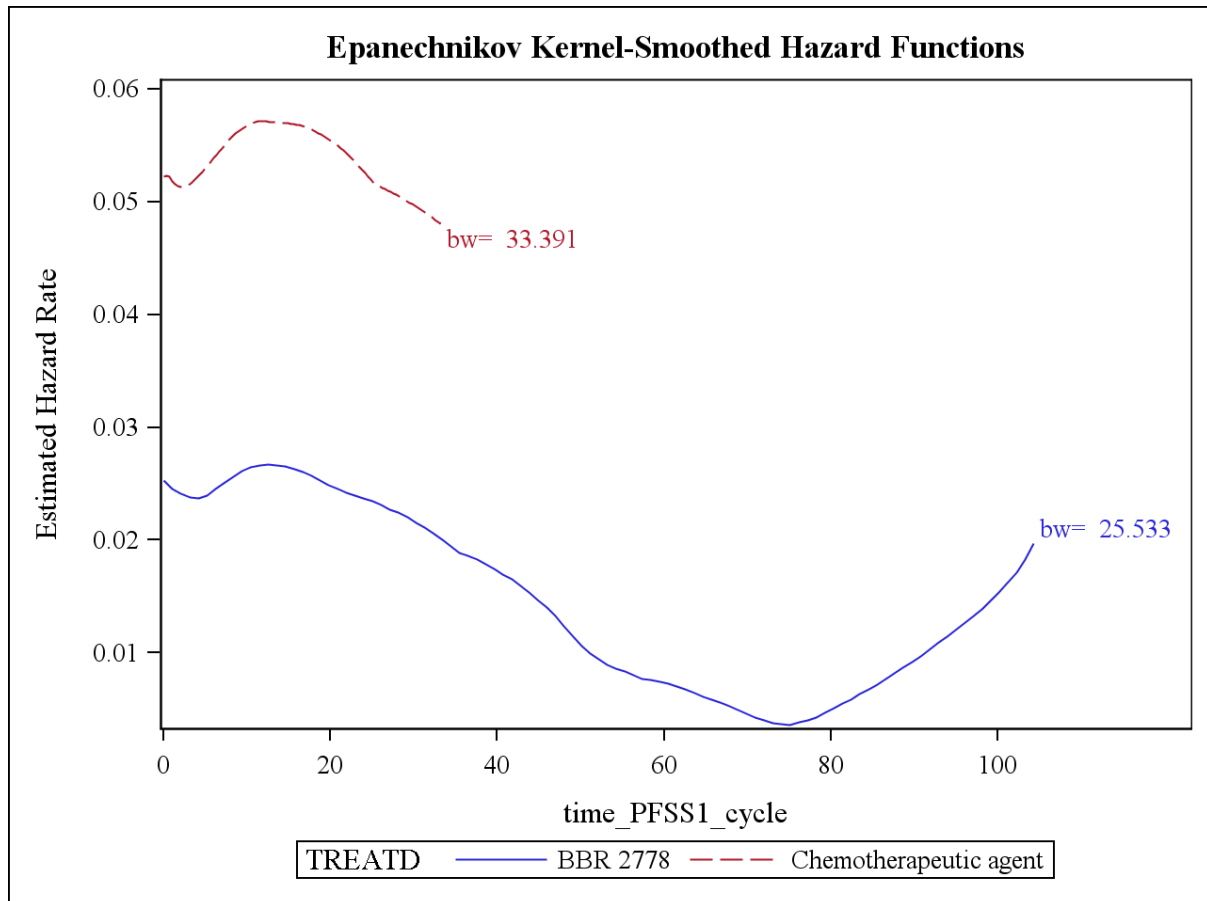




Figure B1-14 displays the Epanechnikov Kernel-smoothed hazard functions for progression-free survival in the consensus-determined aggressive B-cell population. In this figure, pixantrone is represented by “BBR 2778” and physician’s choice by “Chemotherapeutic agent”.

**Figure B1-14 Progression-Free Survival in consensus-determined aggressive B-cell population – Epanechnikov Kernel-smoothed hazard functions**



**Question B10**

**Table B10-1 Drug costs – chemotherapy agents (Table 13 in Appendix F of the original submission)**

| Medication       | Concentration | Tablet or Vial Size | Price   | Source            |
|------------------|---------------|---------------------|---------|-------------------|
| Bleomycin        | 15,000 units  | 15,000 units        | £15.56  | BNF 64 (Dec 2012) |
| Cyclophosphamide | 500 mg        | 500 mg              | £5.66   | BNF 64 (Dec 2012) |
|                  | 1000 mg       | 1000 mg             | £10.66  | BNF 64 (Dec 2012) |
| Cytarabine       | 20 mg/mL      | 5 mL                | £3.90   | BNF 64 (Dec 2012) |
|                  | 20 mg/mL      | 25 mL               | £19.50  | BNF 64 (Dec 2012) |
|                  | 100 mg/mL     | 10 mL               | £39.00  | BNF 64 (Dec 2012) |
|                  | 100 mg/mL     | 20 mL               | £ 77.50 | BNF 64 (Dec 2012) |
| Cisplatin        | 1 mg/mL       | 10 mL               | £5.85   | BNF 64 (Dec 2012) |

|                       |           |         |         |                   |
|-----------------------|-----------|---------|---------|-------------------|
|                       | 1 mg/mL   | 100 mL  | £50.22  | BNF 64 (Dec 2012) |
|                       | 50 mg     | 50 mg   | £17.00  | BNF 64 (Dec 2012) |
| <b>Dexamethasone</b>  | 0.50 mg   | 0.50 mg | £38.00  | BNF 64 (Dec 2012) |
|                       | 2 mg      | 2 mg    | £6.77   | BNF 64 (Dec 2012) |
|                       | 2 mg/mL   | 150 mL  | £42.30  | BNF 64 (Dec 2012) |
| <b>Doxorubicin</b>    | 10 mg     | 10 mg   | £18.72  | BNF 64 (Dec 2012) |
|                       | 50 mg     | 50 mg   | £96.86  | BNF 64 (Dec 2012) |
|                       | 2 mg/ml   | 100 mL  | £275.00 | BNF 64 (Dec 2012) |
| <b>Epirubicin</b>     | 2 mg/mL   | 5 mL    | £19.04  | BNF 64 (Dec 2012) |
|                       | 2 mg/mL   | 50 mL   | £95.54  | BNF 64 (Dec 2012) |
|                       | 2 mg/mL   | 100 mL  | £306.20 | BNF 64 (Dec 2012) |
|                       | 50 mg     | 50 mg   | £91.54  | BNF 64 (Dec 2012) |
| <b>Etoposide IV</b>   | 20 mg/mL  | 5 mL    | £12.15  | BNF 64 (Dec 2012) |
|                       | 20 mg/mL  | 10 mL   | £29.00  | BNF 64 (Dec 2012) |
|                       | 20 mg/mL  | 25 mL   | £60.75  | BNF 64 (Dec 2012) |
| <b>Etoposide oral</b> | 50 mg     | 20-cap  | £99.82  | BNF 64 (Dec 2012) |
|                       | 100 mg    | 10 cap  | £87.23  | BNF 64 (Dec 2012) |
| <b>Gemcitabine</b>    | 200 mg    | 200 mg  | £32.00  | BNF 64 (Dec 2012) |
|                       | 1000 mg   | 1000 mg | £162.00 | BNF 64 (Dec 2012) |
|                       | 1500 mg   | 1500 mg | £213.93 | BNF 64 (Dec 2012) |
|                       | 2000 mg   | 2000 mg | £324.00 | BNF 64 (Dec 2012) |
| <b>Ifosfamide</b>     | 1000 mg   | 1000 mg | £43.53  | BNF 64 (Dec 2012) |
|                       | 2000 mg   | 2000 mg | £88.62  | BNF 64 (Dec 2012) |
| <b>Mesna</b>          | 100 mg/mL | 4 mL    | £3.95   | BNF 64 (Dec 2012) |
|                       | 100 mg/mL | 10 mL   | £9.77   | BNF 64 (Dec 2012) |
| <b>Methotrexate</b>   | 2.5 mg/mL | 2 mL    | £1.68   | BNF 64 (Dec 2012) |
|                       | 25 mg/mL  | 2 mL    | £3.00   | BNF 64 (Dec 2012) |
|                       | 25 mg/mL  | 20 mL   | £30.00  | BNF 64 (Dec 2012) |
|                       | 100 mg/mL | 10 mL   | £78.33  | BNF 64 (Dec 2012) |
|                       | 100 mg/mL | 50 mL   | £380.07 | BNF 64 (Dec 2012) |
| <b>Mitoxantrone</b>   | 2 mg/mL   | 10 mL   | £100.00 | BNF 64 (Dec 2012) |
|                       | 2 mg/mL   | 13 mL   | £152.33 | BNF 64 (Dec 2012) |
|                       | 2 mg/mL   | 15 mL   | £203.04 | BNF 64 (Dec 2012) |
| <b>Oxaliplatin</b>    | 50 mg     | 50 mg   | £150.00 | BNF 64 (Dec 2012) |
|                       | 100 mg    | 100 mg  | £299.50 | BNF 64 (Dec 2012) |
|                       | 5 mg/mL   | 40 mL   | £622.38 | BNF 64 (Dec 2012) |
| <b>Prednisolone</b>   | 1 mg      | 1 mg    | £1.18   | BNF 64 (Dec 2012) |
|                       | 5 mg      | 5 mg    | £1.21   | BNF 64 (Dec 2012) |

|                    |          |         |         |                   |
|--------------------|----------|---------|---------|-------------------|
|                    | 25 mg    | 25 mg   | £30.00  | BNF 64 (Dec 2012) |
|                    | 2.50 mg  | 2.50 mg | £30.79  | BNF 64 (Dec 2012) |
|                    | 5.00 mg  | 5.00 mg | £31.04  | BNF 64 (Dec 2012) |
|                    | 5.00 mg  | 5.00 mg | £9.65   | BNF 64 (Dec 2012) |
|                    | 25 mg/mL | 1 mL    | £5.73   | BNF 64 (Dec 2012) |
| <b>Pixantrone</b>  | 29mg     | 29mg    | £343.80 | CTI               |
| <b>Rituximab</b>   | 10 mg/mL | 10 mL   | £174.63 | BNF 64 (Dec 2012) |
|                    | 10 mg/mL | 50 mL   | £873.15 | BNF 64 (Dec 2012) |
| <b>Vincristine</b> | 1 mg/mL  | 1 mL    | £13.47  | BNF 64 (Dec 2012) |
|                    | 1 mg/mL  | 2 mL    | £26.66  | BNF 64 (Dec 2012) |
|                    | 1 mg/mL  | 5 mL    | £44.16  | BNF 64 (Dec 2012) |
| <b>Vinorelbine</b> | 10 mg/mL | 1 mL    | £29.00  | BNF 64 (Dec 2012) |
|                    | 10 mg/mL | 5 mL    | £139.00 | BNF 64 (Dec 2012) |

### Question C3

**Table C3-1: PIX301 baseline demographic characteristics (ITT population, table 14 in original submission)**

|  | Pixantrone<br>(N=70) | Comparator<br>(N=70) | p-value |
|--|----------------------|----------------------|---------|
| <b>Age at Randomisation (years)</b>            |                      |                      |         |
| Mean (SD)                                      | 58.2 (13.5)          | 56.2 (12.9)          | 0.382   |
| Median (range)                                 | 60.0 (18-80)         | 58.0 (26-82)         |         |
| <b>Age Category at Randomisation, n (%)</b>    |                      |                      | 0.230   |
| 18 to <30                                      | 5 (7.1%)             | 2 (2.9%)             | 0.441   |
| 30 to <40                                      | 2 (2.9%)             | 9 (12.9%)            | 0.055   |
| 40 to <50                                      | 9 (12.9%)            | 7 (10.0%)            | 0.791   |
| 50 to <60                                      | 18 (25.7%)           | 21 (30.0%)           | 0.706   |
| 60 to <70                                      | 20 (28.6%)           | 21 (30.0%)           | 1.000   |
| 70 to <80                                      | 15 (21.4%)           | 9 (12.9%)            | 0.262   |
| ≥80  | 1 (1.4%)             | 1 (1.4%)             | 1.000   |
| <b>Sex, n (%)</b>                              |                      |                      | 0.385   |
| Male   | 46 (65.7%)           | 40 (57.1%)           |         |
| Female   | 24 (34.3%)           | 30 (42.9%)           |         |
| <b>Race, n (%)</b>                             |                      |                      | 0.957   |
| Caucasian                                      | 46 (65.7%)           | 44 (62.9%)           | 0.860   |
| Black  | 0                    | 0                    | NE      |
| Asian  | 10 (14.3%)           | 13 (18.6%)           | 0.649   |
| Hispanic                                       | 7 (10.0%)            | 6 (8.6%)             | 1.000   |
| Native American                                | 1 (1.4%)             | 1 (1.4%)             | 1.000   |
| Other  | 6 (8.6%)             | 6 (8.6%)             | 1.000   |
| <b>Baseline ECOG Performance Status, n (%)</b> |                      |                      | 0.881   |
| 0  | 26 (37.1%)           | 23 (32.9%)           | 0.723   |
| 1  | 30 (42.9%)           | 32 (45.7%)           | 0.865   |
| 2  | 14 (20.0%)           | 14 (20%)             | 1.000   |
| 3  | 0                    | 1 (1.4%)             | 1.000   |
| <b>Geographic Region, n (%)</b>                |                      |                      | 1.000   |
| North America                                  | 4 (5.7%)             | 4 (5.7%)             | 1.000   |
| Western Europe                                 | 19 (27.1%)           | 19 (27.1%)           | 1.000   |
| Rest of World                                  | 47 (67.1%)           | 47 (67.1%)           | 1.000   |

| <b>Weight (kg)</b>   |               |               |       |
|--|---------------|---------------|-------|
| Mean (SD)  | 70.9 (15.8)   | 68.7 (15.3)   | 0.394 |
| Median (range)   | 70.0 (45-117) | 67.5 (37-115) |       |
| <p>Abbreviations used in this table: ECOG, Eastern Cooperative oncology Group; kg, kilogram; n, number of patients with characteristic; N, number of patients in subgroup; SD, standard deviation, NE, not evaluable</p> <p>Fisher exact test was used to compare proportions between the group and a two-sided student's t-test was used in the comparison of means between treatment groups.</p> |               |               |       |

**Table C3-2: PIX301 baseline disease characteristics (table 16 in original submission)**

|  | <b>Pixantrone</b><br>(n=70) | <b>Comparator</b><br>(n=70) | <b>p-value</b> |
|--|-----------------------------|-----------------------------|----------------|
| <b>Duration of NHL (months)</b>  |                             |                             |                |
| Mean (SD)  | 43.6 (35.6)                 | 46.6 (51.7)                 | 0.693          |
| Median (range)   | 32.0 (7-160)                | 31.6 (0-333)                |                |
| <b>Ann Arbor Stage of NHL, n (%)</b>   |                             |                             | 0.426          |
| I/II   | 19 (27.1%)                  | 14 (20.0%)                  |                |
| III/IV   | 51 (72.9%)                  | 56 (80.0%)                  |                |
| <b>International Prognostic Index, n (%)</b>   |                             |                             | 0.569          |
| 0, 1   | 21 (30.0%)                  | 17 (24.3%)                  | 0.569          |
| ≥2   | 49 (70%)                    | 52 (74.3%)                  | 0.706          |
| Missing  | 0                           | 1 (1.4%)                    | 1.000          |
| <b>Number of Extranodal Sites, n (%)</b>   |                             |                             | 1.000          |
| 0  | 35 (50%)                    | 35 (50%)                    | 1.000          |
| ≥1   | 34 (48.6%)                  | 33 (47.1%)                  | 1.000          |
| Missing  | 1 (1.4%)                    | 2 (2.9%)                    | 1.000          |
| <b>Time from Last Chemotherapy to Randomisation (months)</b>   |                             |                             |                |
| Mean (SD)  | 13.6 (15.7)                 | 13.2 (23.5)                 | 0.886          |
| Median (range)   | 9.0 (1-86)                  | 8.0 (1-190)                 |                |
| Abbreviations used in this table: SD, Standard deviation   |                             |                             |                |
| Fisher exact test was used to compare proportions between the groups, and a two-sided student's t test was used in the comparison of means between treatment groups. P-values are for reference purposes only. |                             |                             |                |

**Table C3-3: Prior NHL treatment (table 17 in original submission)**

|  | Pixantrone<br>(n=70) | Comparator<br>(n=70) | p-value |
|--|----------------------|----------------------|---------|
| <b>Chemotherapy regimens</b>   |                      |                      |         |
| Mean (SD)  | 2.9 (1.3)            | 3.1 (1.2)            | 0.535   |
| Median (range)   | 3.0 (2-9)            | 3.0 (2-8)            |         |
| <b>Number of chemotherapy regimens</b>   |                      |                      | 0.396   |
| 2  | 32 (45.7%)           | 24 (34.3%)           | 0.227   |
| 3-5  | 35 (50%)             | 42 (60%)             | 0.308   |
| ≥6   | 3 (4.3%)             | 4 (5.7%)             | 1.000   |
| <b>Category of prior chemotherapy</b>  |                      |                      |         |
| Biologics (anti-CD20 mAB)  | 38 (54.3%)           | 39 (55.7%)           | 1.000   |
| Anthracyclines/anthracenediones  | 70 (100.0%)          | 70 (100.0%)          | NE      |
| Other topoisomerase inhibitors (a)   | 53 (75.7%)           | 55 (78.6%)           | 0.841   |
| Platinum-based agents  | 36 (51.4%)           | 35 (50.0%)           | 1.000   |
| Antimetabolites  | 42 (60.0%)           | 44 (62.9%)           | 0.862   |
| Alkylating agents  | 70 (100.0%)          | 70 (100.0%)          | NE      |
| Spindle poison/mitotic inhibitors (SP/MIs)   | 70 (100.0%)          | 69 (98.6%)           | 1.000   |
| Corticosteroids  | 66 (94.3%)           | 65 (92.9%)           | 1.000   |
| Other (b)  | 21 (30.0%)           | 30 (42.9%)           | 0.160   |
| <b>Disease response category</b>   |                      |                      | 0.544   |
| Refractory   | 40 (57.1%)           | 40 (57.1%)           | 1.000   |
| Relapsed   | 28 (40.0%)           | 30 (42.9%)           | 0.864   |
| Missing  | 2 (2.9%)             | 0                    | 0.496   |
| <b>Patients who had radiotherapy, n (%)</b>  |                      |                      |         |
|  | 34 (48.6%)           | 30 (42.9%)           | 0.611   |
| <b>Received SCT, n (%)</b>   |                      |                      |         |
|  | 11 (15.7%)           | 10 (14.3%)           | 1.000   |
| <b>Anthracycline dose equivalent (mg/m<sup>2</sup>) (b)</b>  |                      |                      |         |
| Mean (SD)  | 284.8 (98.1)         | 321.9 (119.0)        | 0.046   |
| Median (range)   | 292.9 (51-472)       | 315.5 (15-681)       |         |
| (a) Other topoisomerase inhibitors were etoposide and teniposide   |                      |                      |         |
| (b) Other includes targeted therapies, non-classified anticancer therapies and supportive therapies  |                      |                      |         |
| Abbreviations used in this table: SCT, stem cell transplant; SD, Standard deviation, NE, Not evaluable   |                      |                      |         |
| Fisher exact test was used to compare proportions between the groups, and a two-sided student's t test was used in the comparison of means between treatment groups. |                      |                      |         |