### S1 Table. The detailed clinical information of treated eye globes in the RB cohort

| Eye | Patient No. | Sex | Age at diagnosis (Mo) | Laterality\(^a\) | RB mutation | RE stage | ICRB | No. of IVC | No. of IAC | IA melphalan/to potecan | IA melphalan | Progression | Time to progression | Enucleation | Salvage duration (yr)\(^b\) |
|-----|-------------|-----|-----------------------|------------------|-------------|----------|------|-----------|-----------|------------------------|-------------|-------------|---------------------|-------------|---------------------|
| 1   | 1           | F   | 4                     | L(B)             | Yes         | 5        | E    | 3         | 3         | Y                      | Y           | N           | N                   | N           | 10.7+               |
| 2   | 1           | F   | 4                     | R(B)             | Yes         | 5        | E    | 3         | 3         | Y                      | Y           | N           | N                   | N           | 10.7+               |
| 3   | 2           | M   | 23                    | L                | None        | 5        | E    | 15        | 3         | N                      | Y           | Y           | 0.8                 | Y           | 0.9                 |
| 4   | 3           | F   | 19                    | R                | None        | 3        | C    | 8         | 6         | N                      | Y           | N           | N                   | N           | 9+                  |
| 5   | 4           | M   | 35                    | R                | None        | 5        | D    | 10        | 5         | N                      | Y           | Y           | 0.6                 | N           | 8+                  |
| 6   | 5           | M   | 19                    | R                | Yes         | 5        | E    | 7         | 5         | N                      | Y           | Y           | 0.8                 | Y           | 0.8                 |
| 7   | 6           | M   | 19                    | L(B)             | None        | 5        | E    | 12        | 5         | N                      | Y           | Y           | 0.6                 | Y           | 2.8                 |
| 8   | 6           | M   | 19                    | R(B)             | None        | 4        | C    | 12        | 4         | N                      | Y           | N           | N                   | N           | 8.9+                |
| 9   | 7           | F   | 19                    | R                | Yes         | 3        | B    | 13        | 6         | Y                      | Y           | Y           | 3.9                 | Y           | 7.4                 |
| 10  | 8           | M   | 15                    | R                | None        | 5        | E    | 5         | 5         | N                      | Y           | N           | N                   | N           | 6.8+                |
| 11  | 9           | M   | 27                    | R                | NA          | 5        | E    | 6         | 3         | N                      | Y           | Y           | 0.6                 | Y           | 0.6                 |
| 12  | 10          | F   | 11                    | R                | None        | 3        | D    | 12        | 3         | N                      | Y           | Y           | 0.5                 | Y           | 1.4                 |
| 13  | 11          | F   | 31                    | L                | None        | 3        | E    | 13        | 9         | N                      | Y           | Y           | 0.8                 | Y           | 1.5                 |
| 14  | 12          | M   | 3                     | L(B)             | Yes         | 3        | E    | 15        | 6         | Y                      | Y           | Y           | 2.1                 | N           | 6.5+                |
| 15  | 13          | F   | 30                    | R                | None        | 5        | D    | 12        | 9         | Y                      | Y           | Y           | 1.5                 | Y           | 4.5                 |
| 16  | 14          | M   | 36                    | R                | None        | 5        | D    | 12        | 8         | Y                      | Y           | Y           | 1.0                 | Y           | 1.5                 |
| 17  | 15          | M   | 20                    | L                | Yes         | 5        | E    | 8         | 6         | Y                      | Y           | Y           | 0.6                 | N           | 6+                  |
| 18  | 16          | M   | 11                    | L                | Yes         | 5        | E    | 8         | 4         | N                      | Y           | Y           | 0.9                 | N           | 5.9+                |
| 19  | 17          | M   | 6                     | R(B)             | None        | 4        | E    | 9         | 2         | Y                      | N           | Y           | 0.5                 | Y           | 0.7                 |
| 20  | 18          | M   | 28                    | R                | None        | 5        | D    | 6         | 3         | N                      | Y           | N           | N                   | N           | 5.4+                |
| 21  | 19          | M   | 31                    | L(B)             | Yes         | 5        | E    | 8         | 6         | Y                      | Y           | N           | N                   | N           | 5.3+                |
| 22 | 19 | M   | 31  | R(B) | Yes | 4   | C   | 8   | 5   | Y   | N   | Y   | 0.6 | N   | 5.3+ |
| 23 | 20 | M   | 62  | R    | Yes | 5   | E   | 11  | 3   | Y   | N   | N   | N   | 4.6+|
| 24 | 21 | F   | 18  | R(B) | Yes | 5   | D   | 23  | 3   | Y   | N   | Y   | 1.3 | Y   | 4.1 |
| 25 | 22 | M   | 51  | L    | None | 5  | D   | 10  | 6   | Y   | N   | Y   | 0.9 | N   | 2.9+|
| 26 | 23 | M   | 8   | R    | None | 5  | D   | 9   | 4   | Y   | N   | Y   | 2.0 | Y   | 2   |
| 27 | 24 | F   | 10  | L    | None | 3  | C   | 6   | 1   | Y   | N   | N   | N   | 4.1+|
| 28 | 25 | F   | 15  | L    | None | 5  | D   | 10  | 4   | Y   | N   | Y   | 1.2 | N   | 3.9+|
| 29 | 26 | F   | 10  | L    | None | 4  | D   | 7   | 2   | Y   | N   | N   | N   | 3.8+|
| 30 | 27 | F   | 7   | L(B) | Yes | 5  | E   | 6   | 2   | Y   | N   | N   | N   | 3.7+|
| 31 | 28 | M   | 46  | L    | None | 5  | E   | 12  | 5   | Y   | N   | Y   | 0.9 | Y   | 1.1 |
| 32 | 29 | F   | 20  | R    | None | 5  | E   | 6   | 2   | Y   | N   | N   | N   | 3.6+|
| 33 | 30 | F   | 44  | R    | Yes | 5  | E   | 12  | 4   | Y   | N   | Y   | 1.7 | N   | 3+  |
| 34 | 31 | F   | 40  | R    | Yes | 5  | E   | 9   | 4   | Y   | N   | Y   | 1.2 | N   | 2.5+|
| 35 | 32 | F   | 21  | L    | None | 5  | E   | 7   | 4   | Y   | N   | Y   | 0.7 | Y   | 0.7 |
| 36 | 33 | M   | 20  | R(B) | None | 5  | E   | 9   | 3   | Y   | N   | Y   | 1.1 | Y   | 1.2 |
| 37 | 34 | F   | 28  | R    | None | 5  | D   | 6   | 4   | Y   | N   | N   | N   | 1.7+|
| 38 | 35 | M   | 25  | L    | NA  | 4   | E   | 13  | 7   | Y   | N   | Y   | 1.6 | N   | 3.7+|
| 39 | 36 | M   | 9   | L    | Yes | 5  | E   | 9   | 2   | Y   | N   | Y   | 1.3 | N   | 1.4+|
| 40 | 37 | F   | 7   | L(B) | Yes | 5  | E   | 13  | 3   | Y   | N   | Y   | 1.0 | N   | 1.1+|
| 41 | 38 | F   | 220 | R    | Other | 5  | D   | 12  | 3   | Y   | N   | N   | N   | 1  |
| 42 | 39 | M   | 15  | R(B) | Yes | 5  | E   | 7   | 2   | Y   | N   | N   | N   | 0.6+|
| 43 | 40 | M   | 16  | R(B) | Yes | 5  | E   | 8   | 1   | Y   | N   | N   | N   | 0.6+|

IAC, intraarterial chemotherapy; ICRB, International Classification of Retinoblastoma; IVC, systemic intravenous chemotherapy; IQR, interquartile range; NA, not available; RB, retinoblastoma; RE, Reese-Ellsworth classification. a) R and L indicate right and left eye globe, respectively. B denotes bilateral retinoblastoma. R(B) means right eye globe, and L(B) means left eye globe of bilateral RB, respectively. b) The plus sign indicates continued follow-up.