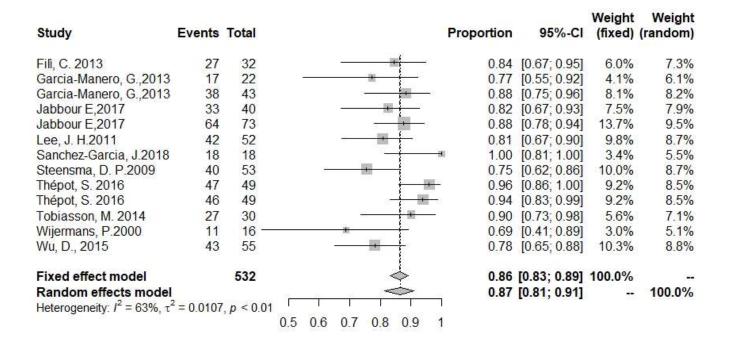
## **SUPPLEMENTARY FIGURES**

| Study  | Events | Total |  | Proportion | 95%-CI       | Weight<br>(fixed) | Weight<br>(random) |
|--|--------|-------|--|------------|--------------|-------------------|--------------------|
| Uchida, T.2011   | 14     | 23    |  | 0.61       | [0.39; 0.80] | 2.2%              | 4.5%               |
| Sanchez-Garcia, J.2018   | 8      | 18    |  | 0.44       | [0.22; 0.69] | 1.7%              | 4.2%               |
| Thépot, S. 2016  | 38     | 98    |  | 0.39       | [0.29; 0.49] | 9.5%              | 5.7%               |
| Grinblatt, D. L., 2015   | 132    | 187   |  | 0.71       | [0.63; 0.77] | 18.2%             | 6.0%               |
| Morita, Y.,2018  | 23     | 44    |  | 0.52       | [0.37; 0.68] | 4.3%              | 5.2%               |
| Jabbour E,2017   | 49     | 70    | × <u> </u>                               | 0.70       | [0.58; 0.80] | 6.8%              | 5.6%               |
| Fili, C. 2013  | 15     | 32    |  | 0.47       | [0.29; 0.65] | 3.1%              | 4.9%               |
| Tobiasson, M. 2014   | 9      | 30    | · · · · · · · · · · · · · · · · · · ·    | 0.30       | [0.15; 0.49] | 2.9%              | 4.8%               |
| Garcia-Manero, G., 2016  | 18     | 55    |  | 0.33       | [0.21; 0.47] | 5.3%              | 5.4%               |
| Garcia-Manero, G., 2013  | 15     | 65    |  | 0.23       | [0.14; 0.35] | 6.3%              | 5.5%               |
| Wu, D. 2015  | 14     | 55    |  | 0.25       | [0.15; 0.39] | 5.3%              | 5.4%               |
| lastrebner, M. 2010  | 24     | 56    |  | 0.43       | [0.30; 0.57] | 5.4%              | 5.4%               |
| Lee, J. H. 2011  | 26     | 52    |  | 0.50       | [0.36; 0.64] | 5.1%              | 5.4%               |
| Jeong, S. H. 2015  | 53     | 86    |  | 0.62       | [0.51; 0.72] | 8.4%              | 5.7%               |
| Steensma, D. P. 2009   | 26     | 52    |  | 0.50       | [0.36; 0.64] | 5.1%              | 5.4%               |
| Kantarjian, H.2006   | 4      | 28 -  |  | 0.14       | [0.04; 0.33] | 2.7%              | 4.8%               |
| Martin, M. G. 2009   | 3      | 9     |  | 0.33       | [0.07; 0.70] | 0.9%              | 3.2%               |
| Wijermans, P. 2000   | 4      | 16    |  | 0.25       | [0.07; 0.52] | 1.6%              | 4.0%               |
| Sayar, H. 2011   | 6      | 14    |  | 0.43       | [0.18; 0.71] | 1.4%              | 3.9%               |
| Jabbour E,2017   | 19     | 39    |  | 0.49       | [0.32; 0.65] | 3.8%              | 5.1%               |
| Fixed effect model   |        | 1029  |  | 0.48       | [0.45; 0.51] | 100.0%            | ( <del></del> -)   |
| Random effects model<br>Heterogeneity: $l^2 = 85\%$ , $\tau^2$ |        |       | 1<br>1<br>0.1 0.2 0.3 0.4 0.5 0.6 0.7 0. |            | [0.35; 0.52] | -                 | 100.0%             |

Supplementary Figure 1. Forest plot of response rate among 19 studies included. The pooled response rate for the whole cohort was 43.6% [95%CI 35.5-51.8%].

| Study  | Events | Total     |          |          |     |     | Proportion | 95%-CI                              | Weight<br>(fixed) | Weight<br>(random) |
|--|--------|-----------|----------|----------|-----|-----|------------|-------------------------------------|-------------------|--------------------|
| Jabbour E,2017   | 12     | 38        | <u> </u> | <u>k</u> |     |     | 0.32       | [0.18; 0.49]                        | 12.7%             | 12.5%              |
| Garcia-Manero, G.,2013                                       | 11     | 28        |          | - 10     |     |     | 0.39       | [0.22; 0.59]                        | 9.4%              | 11.3%              |
| Garcia-Manero, G.,2016                                       | 11     | 38        |          | <u>i</u> |     |     |            | [0.15; 0.46]                        |                   | 12.5%              |
| Thépot, S. 2016  | 15     | 98        |          |          |     |     | 0.15       | [0.09; 0.24]                        | 32.8%             | 15.1%              |
| Tobiasson, M. 2014   | 5      | 22        |          |          |     |     | 0.23       |                                     |                   | 10.3%              |
| Sanchez-Garcia, J.2018                                       | 6      | 18        |          |          | 10  |     | 0.33       |                                     |                   | 9.4%               |
| Fili, C. 2013  | 6<br>9 | 23        | -        | - 10     |     |     | 0.39       | and the second second second second |                   | 10.5%              |
| Jabbour E,2017   | 3      | 19 -      |          |          |     |     | 0.16       |                                     |                   | 9.7%               |
| Uchida, T.2011   | 10     | 15        |          | —        | *   |     | - 0.67     |                                     |                   | 8.6%               |
| Fixed effect model   |        | 299       |          | *        |     |     | 0.27       | [0.22; 0.32]                        | 100.0%            |                    |
| Random effects model<br>Heterogeneity: $I^2 = 67\%$ , $\tau$ | 20     | . p < 0.0 | 1        |          | r   |     | 0.31       | [0.21; 0.41]                        | 17 <del>44</del>  | 100.0%             |
|  |        |           | 0.2      | 0.4      | 0.6 | 0.8 |            |                                     |                   |                    |

Supplementary Figure 2. Forest plot of transfusion independence rate among 8 studies included. The pooled TI rate was 30.5% [95%CI 21.4-40.5%].



Supplementary Figure 3. Forest plot of 1-yr overall survival. The pooled 1-yr OS from 10 studies was 86.5% [95%CI 81.2-91.0%].

| Study  | Events | Total            |                         | Proportion | 95%-CI       | Weight<br>(fixed) | Weight<br>(random) |
|--|--------|------------------|-------------------------|------------|--------------|-------------------|--------------------|
| Fili, C. 2013  | 23     | 32               |                         | 0.72       | [0.53; 0.86] | 7.3%              | 8.8%               |
| Garcia-Manero, G.,2013   | 15     | 22               |                         | 0.68       | [0.45; 0.86] | 5.0%              | 7.6%               |
| Jabbour E,2017   | 27     | 40               |                         | 0.68       | [0.51; 0.81] | 9.2%              | 9.5%               |
| Jabbour E,2017   | 51     | 73               |                         | 0.70       | [0.58; 0.80] | 16.7%             | 11.0%              |
| Sanchez-Garcia, J.2018   | 16     | 18               |                         | - 0.89     | [0.65; 0.99] | 4.1%              | 6.9%               |
| Steensma, D. P.2009  | 24     | 53 -             |                         | 0.45       | [0.32; 0.60] | 12.1%             | 10.3%              |
| Thépot, S. 2016  | 41     | 49               |                         | 0.84       | [0.70; 0.93] | 11.2%             | 10.1%              |
| Thépot, S. 2016  | 40     | 49               | ÷                       |            | [0.68; 0.91] | 11.2%             | 10.1%              |
| Tobiasson, M. 2014   | 21     | 30               |                         | 0.70       | [0.51; 0.85] | 6.9%              | 8.6%               |
| Wijermans, P.2000  | 9      | 16 -             |                         | 0.56       | [0.30; 0.80] | 3.7%              | 6.5%               |
| Wu, D., 2015   | 31     | 55               |                         | 0.56       | [0.42; 0.70] | 12.6%             | 10.4%              |
| Fixed effect model   |        | 437              | $\diamond$              | 0.69       | [0.64; 0.73] | 100.0%            |                    |
| Random effects model<br>Heterogeneity: $l^2 = 69\%$ , $\tau^2$ |        | 8205000 00281200 |                         | 0.69       | [0.61; 0.77] |                   | 100.0%             |
|  |        | 0.3              | 0.4 0.5 0.6 0.7 0.8 0.9 |            |              |                   |                    |

Supplementary Figure 4. Forest plot of 2-yr overall survival. The pooled 2-yr OS from 9 studies was 69.5% [95%CI 61.3-77.1%].

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