

# Platelets

## Don't use two...



## ...when one will do

For prophylactic use in a 70kg adult, one adult therapeutic dose (ATD) typically gives an immediate rise in platelet count of:

**20 - 40 x 10<sup>9</sup>/l** <sup>(1)</sup>

This is a one hour increment. Note that the rise in platelet count is immediate so a platelet increment can be obtained 10 minutes after the completion of the transfusion <sup>(2)</sup>

Do not administer double dose platelets for prophylactic transfusions as this practice does not decrease the risk of bleeding <sup>(3)</sup>

Request and administer one unit/ATD, then reassess your patient.

1. Kerkhoffs JL, van Putten WL, Novotny VM, Te Boekhorst PA, Schipperus MR, Zwaginga JJ, van Pampus LC, de Greef GE, Luten M, Huijgens PC, Brand A, van Rhenen DJ; Dutch – Belgian HOVON cooperative group. *Clinical effectiveness of leucoreduced, pooled donor platelet concentrates, stored in plasma or additive solution with and without pathogen reduction*. J Haematol. 2010 Jul;150(2):209-17. <https://www.ncbi.nlm.nih.gov/pubmed/20507310>
2. O'Connell B, Lee EJ, Schiffer CA. *The value of 10-minute post transfusion platelet counts*. Transfusion 1988; 28: 66-67. <https://pubmed.ncbi.nlm.nih.gov/3341070/>
3. Slichter SJ, Kaufman RM, Assmann SF, et al. *Dose of prophylactic platelet transfusions and prevention of haemorrhage*. N Engl J Med 2010;362:600-13. <https://www.nejm.org/doi/full/10.1056/nejmoa0904084>