

Single unit transfusion of EC: evolving insights

Actions we perform already many years...

Education

- ▶ Focus on indication setting by up-to-date written guidelines, e-learning, poster for **doctors**
- ▶ Focus on role of **nurses**: mandated e-learning/written guidelines/classroom lessons/poster



Actions we perform already many years... (2)

E- Decision support when ordering EC transfusion

- ▶ For each order: choice selection for indication as reminder
- ▶ If you want to order more than one unit of RBC
 - extra note to raise awareness of our single unit policy

Indicatie: Act bel bloed

Single Unit Policy voor:

| | |
|----------------|-------------------------------------------------|
| Act bel bloed | Actieve EN belangrijke bloeding |
| Hb boven 7.0 | Hb boven 7.0 EN co morbiditeit |
| Hb onder 7.0 | Hb onder 7.0g dl |
| Onverm bl verl | Belangrijk onvermijdelijk bloedverlies verwacht |

OK Sluiten

Indicatie: Act bel bloed

Single Unit Policy voor EC:

| | |
|-----------------------|-----------------------|
| Hogere klin nood | Hogere klin nood |
| Hoger risico bloeding | Hoger risico bloeding |

OK Sluiten

Results of a first evaluation in 2019 (= baseline)

- ▶ Single unit RBC as e-order : better than expected!
 - Average = 80%
 - Median = 80%
- ▶ Differences between departments depending on, among others:
 - Urgency of care: ICU / OR / ER
 - Use of antico, co-morbidity, ... (eg: CCU, CSICU vs SICU)
 - Pathology: hematology, traumatology, ...
 - How familiar services are with transfusion in general
- ▶ Go for 'zero unit policy' at UZG???

PERCENTAGE SINGLE UNIT TRANSFUSION 2019 (EC): ORDERS

| AFDELING | % Single | % Non Single | Absoluut aantal EC |
|----------|----------|--------------|--------------------|
| BWC | 94 | 6 | 153 (-12) |
| CHI02 | 24 | 75 | 25 |
| CHI03 | 44 | 55 | 121 |
| CHI05 | 63 | 36 | 49 |
| CHI06 | 88 | 11 | 88 |
| CHI07 | 79 | 21 | 191 |
| CHI08 | 79 | 20 | 48 |
| CHI09 | 73 | 26 | 53 |
| CHI10 | 78 | 22 | 111 |
| CHI11 | 80 | 20 | 30 |
| CHI12 | 63 | 37 | 96 |
| CHI13 | 65 | 35 | 125 |
| DKL 01 | 70 | 30 | 223 |
| DKL 02 | 95 | 5 | 25 |
| DKL 03 | 100 | 0 | 1 |
| DKL 04 | 90 | 10 | 21 |
| DKL 08 | 100 | 0 | 1 |
| DKL 10 | 97 | 3 | 36 |
| DKL 15 | 91 | 9 | 24 |
| DKL 19 | 65 | 34 | 296 |
| DKL 20 | 77 | 23 | 1261 |
| DKL 21 | 72 | 23 | 22 |
| DKL 25 | 87 | 13 | 142 |
| GENUZ | 100 | 0 | 18 |
| | | | |

PERCENTAGE SINGLE UNIT TRANSFUSION 2019 (EC): ORDERS

| AFDELING | % Single | % Non-single | Absoluut aantal EC (-12) |
|----------|----------|--------------|--------------------------|
| GER | 90 | 10 | 138 |
| HBW01 | 76 | 23 | 76 |
| INT01 | 97 | 3 | 815 |
| INT02 | 89 | 11 | 66 |
| INT03 | 94 | 6 | 953 |
| INT04 | 95 | 5 | 1165 |
| INT05 | 87 | 12 | 49 |
| INT06 | 79 | 20 | 325 |
| INT07 | 82 | 17 | 106 |
| INT08 | 74 | 25 | 43 |
| INT09 | 72 | 27 | 81 |
| INT10 | 92 | 7 | 926 |
| INT12 | 96 | 3 | 300 |
| INZ 01 | 86 | 14 | 154 |
| INZ 02 | 91 | 8 | 475 |
| INZ 03 | 77 | 23 | 890 |
| INZ 04 | 86 | 13 | 266 |
| OK1 | 80 | 20 | 44 |
| OK2 | 60 | 40 | 603 |
| PED03 | 75 | 24 | 370 |
| SPOED01 | 42 | 58 | 267 |

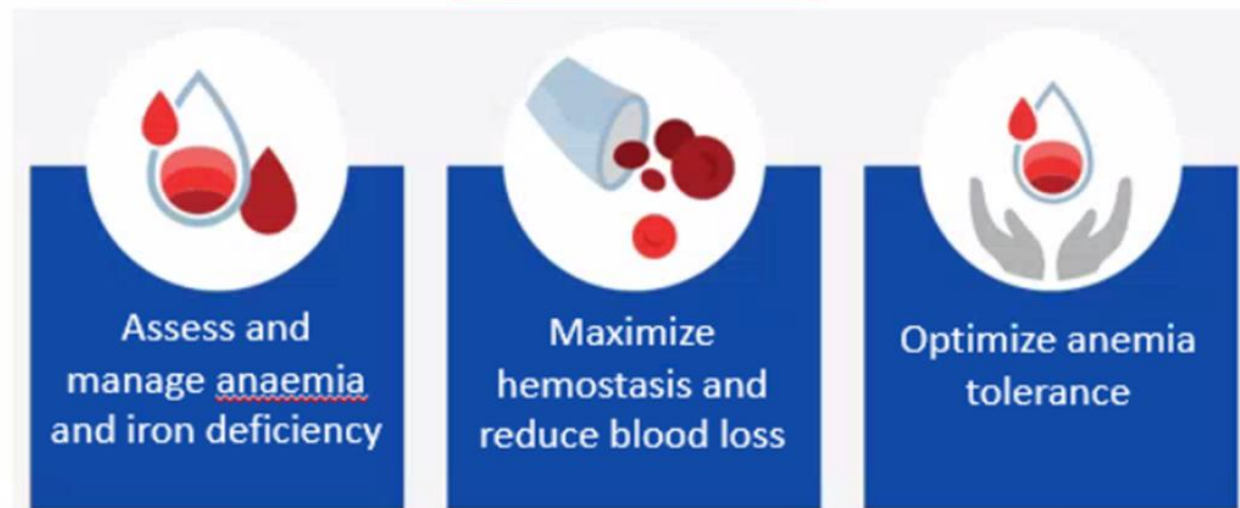
Current and planned actions

Patient blood management (PBM):

Evidence-based, multidisciplinary, patient-centred, multimodal approach to optimising care of patients who **might** need transfusion



= Bundle of care



⇒ Goal = to improve patient outcome

Current and planned actions (2)

Patient blood management

- ▶ Multidisciplinary collaboration
- ▶ Extensive data collection : Hb at time of order RBC? SU-order? Etc...
- ▶ Targeted improvement actions + self-evaluation, 'benchmarking'

For example:

- ▶ PBM masterclasses in hospital
Focus on SUT – use of Cross and Hold, Type and Screen, ABP – indication setting
- ▶ preOP timely detection and treatment of ferriprive aneamia

Current and planned actions (3)

Other actions

- ▶ Billing the avoidable loss of blood products from 01/07/2020
 - Maintain database on traceability
 - Direct contact with services who frequently 'lose' blood products
→ Problem analysis and targeted improvement actions
 - Loss of money as extra motivation: billing helps!



Current and planned actions (4)

Other actions

- ▶ Expanding education (forever...)
 - Transfusion as part of the training program for starting nurses
 - Agreement with faculty of medicine : each 6 months extra e-learning modules on transfusion (focus: indication setting/SUT/PBM)

Results / Evaluation

- ▶ Waiting for data to make an evaluation of the taken actions

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Volg ons op

