

# Orr-eally?

A look at the appropriate use of O D negative red cells

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BMSEDG#11



### What I'm going to discuss

- O D Negative patient requirements
- O D Negative specifications routine and emergency
- Types of O D negative requests
- Impact on blood stocks
- Do you rr-eally need it? Is my order OK?
- Hospitals & Science website







### O D Negative patient requirements

- In 2019, JPAC published guidance on "The appropriate use of group O D negative red cells"
- In 2020, JPAC also provided "Appropriate Specification for Emergency Red Cells"
- These encourage O D- & K- RBC appropriate use, without contributing to shortages
- Usage of red cells has reduced by 25% over the last 15 years
- Despite this, demand for O D Negative red cells has continued to rise



### Indications for usage of Group O red cells

- Major Haemorrhage
- Unknown blood group (discrepancy, HCST, mixed field, complex pheno)
- Patients with known blood group without a current valid blood group sample
- Patients with only one ABO group result at the time when blood is required
- Non group O patients with a current valid blood group and a negative antibody screen where group specific red cells are not readily available



### **D** Negative specifications

The use of D negative red cells should be prioritised on the basis of gender and age for the following clinical reasons:

- D negative patients with immune anti-D
- D negative females (including D variants)
- Female patients of unknown blood group (in an emergency) with child-bearing potential
- Children (<18 years old) of unknown blood group in an emergency</li>



### **Ordering O D Negative**

Helping to ensure stocks are available to all



Entry of 'Emergency Use' or 'Flying squad' in OBOS line notes ensures our Hospital Services team will issue O D Negative units which are less than 14 days old from donation. Please refrain from entering additional text such as 'fresh as possible', 'long dated' or similar text when ordering emergency units



Please continue to follow National Blood Transfusion Committee guidance on the JPAC website - <a href="mailto:specification-of-Emergency-blood">specification-of-Emergency-blood</a>

- Women over 51 years to receive O D Positive
- Women & Children receive O D Negative, K negative. No requirement for C-, E-
- CMV- to be considered only in the maternity setting



Utilise the max age life box on OBOS only where it is clinically appropriate

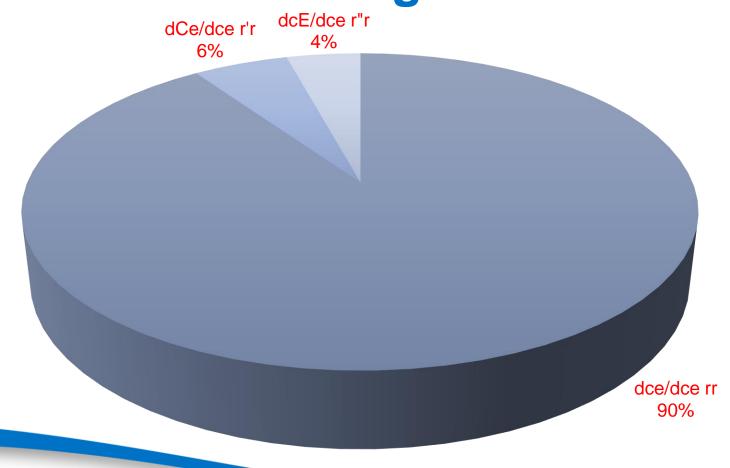


# Types of O D negative requests Blood and Transplant





# Phenotypes of UK O D neg Donors Blood and Transplant





### **High Spec O D negative**



- O D- C- E- K- HbS- ➤rr K- HbS-
- O D- C- E- K- ≻rr K-

- O D- K-
- O D-

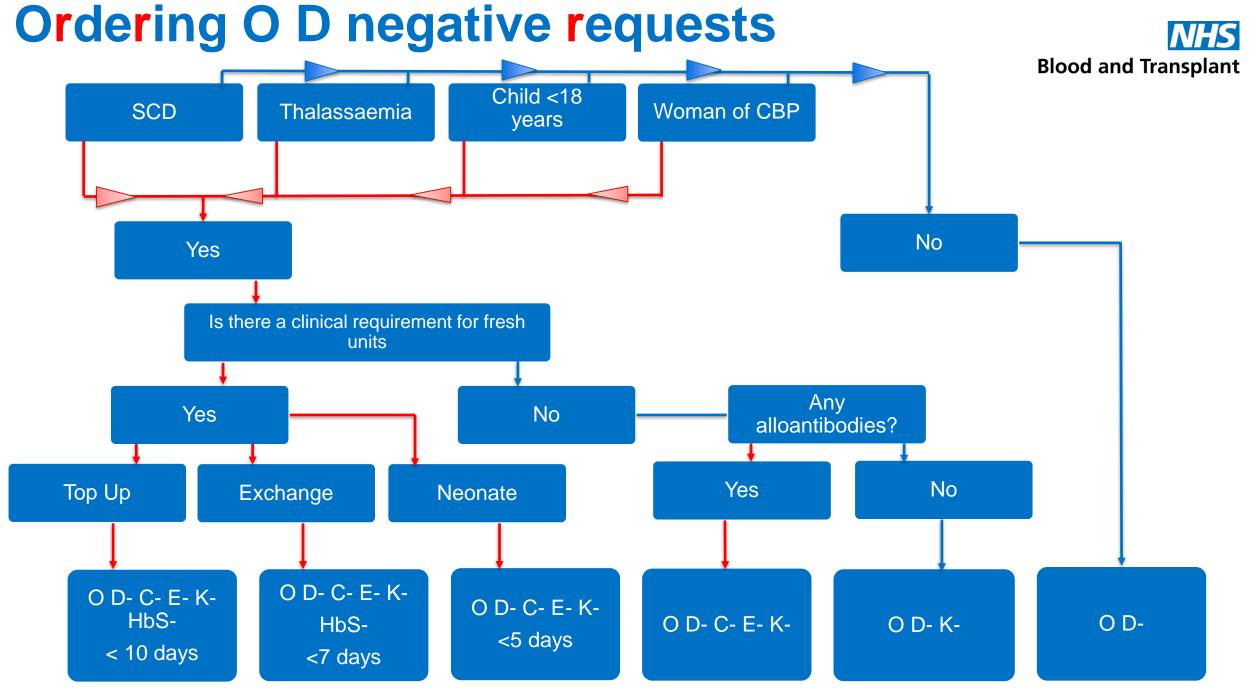
>rr K-, r'r K-, r"r K-

>rr K-, rr K+, r'r K+, r"r K+, r'r K-, r"r K-

O D neg blood is not required to be O rr K- unless there is a clinical need



**JPAC** 



Consider specific requirements/additional phenotypes and refer to guidelines/clinicians where appropriate



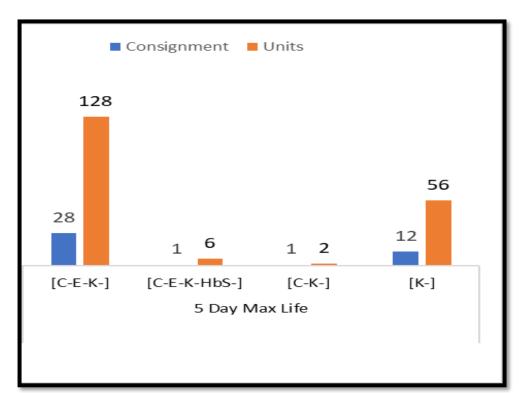
### O Pos to Bleeding Men



- NBTC O D Neg Working Group project
- National Objective To promote the use of O Pos to adult males in trauma/MH
- More information on the PBM page: <u>https://hospital.blood.co.uk/patient-services/patient-blood-management/o-d-negative-red-cell-toolkit/</u>



### Types of O D negative requests Blood and Transplant

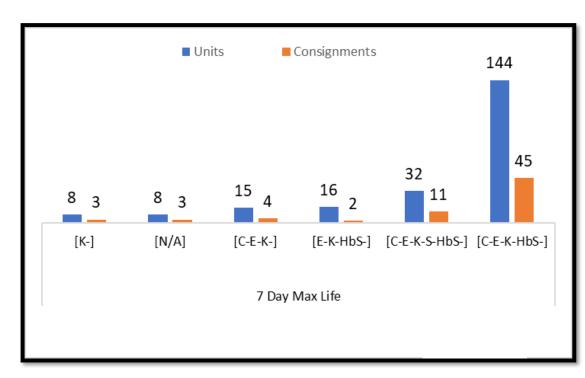


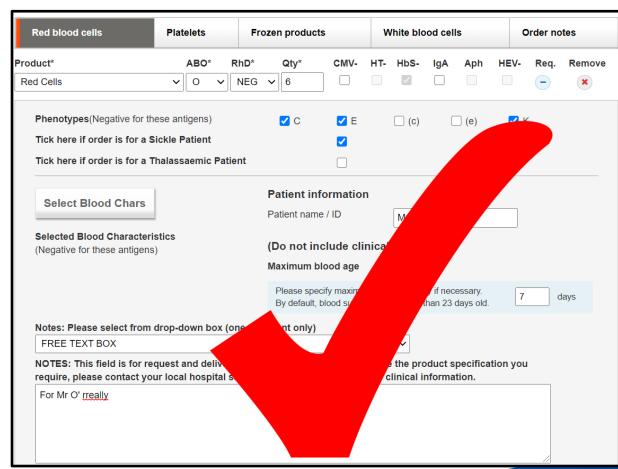






### Types of O D negative requests Blood and Transplant

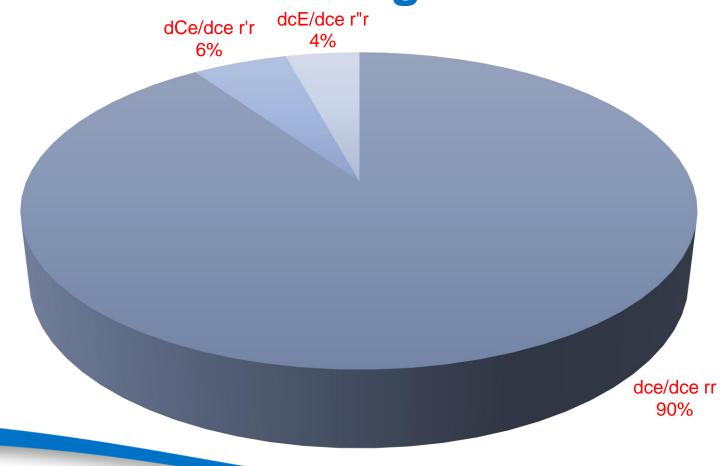






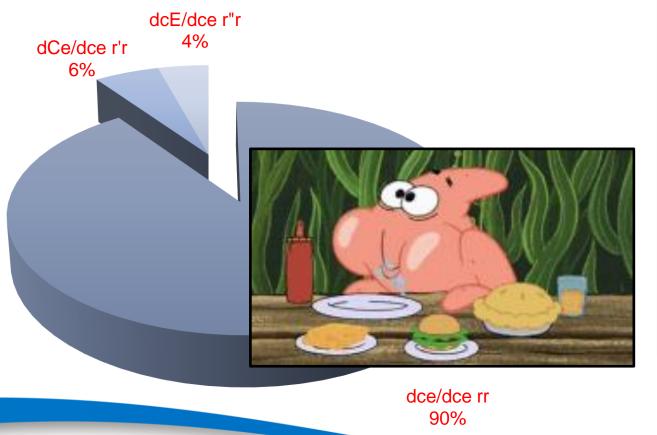


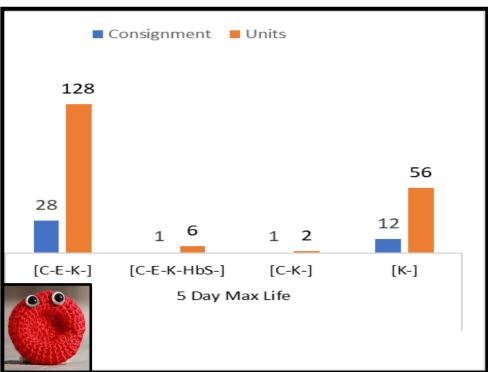
# Phenotypes of UK O D neg Donors Blood and Transplant





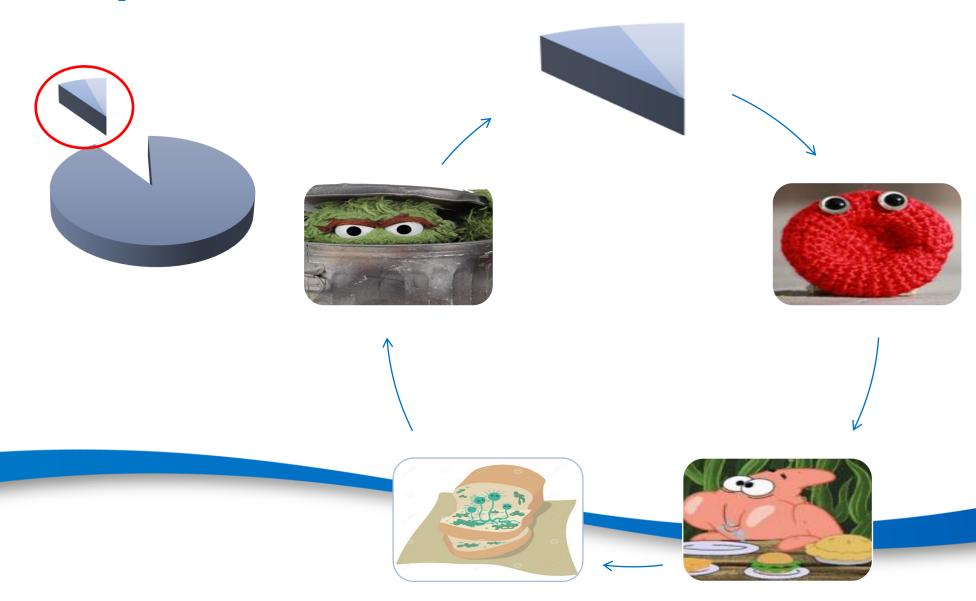
### Impact on blood stocks





### Impact on blood stocks







## Always ask yourself.....

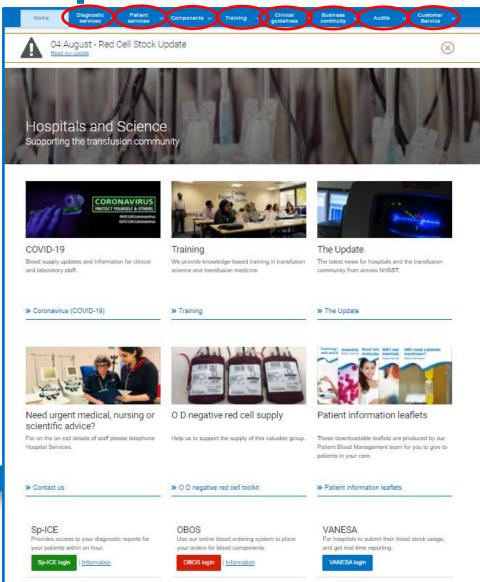
- Do you rr-eally need it?
- •Is my order OK?

Koming soon to a screen near you?



### **Hospitals and Science Website**

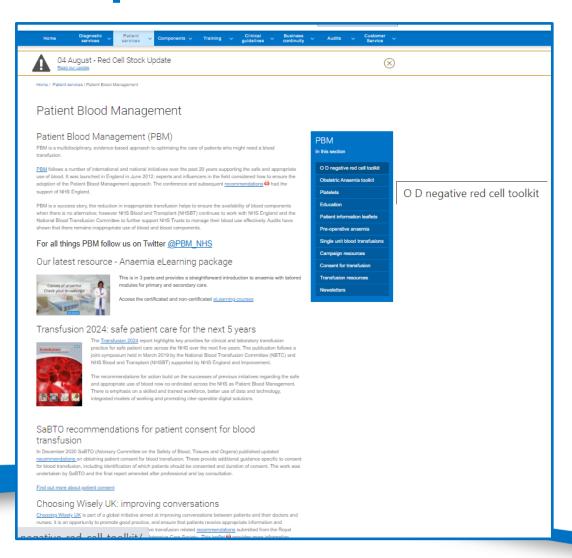




- Diagnostic Services
- Patient Services
- Components
- Training
- Clinical Guidelines
- Business Continuity
- Audits
- Customer Service

### **Hospitals and Science Website**

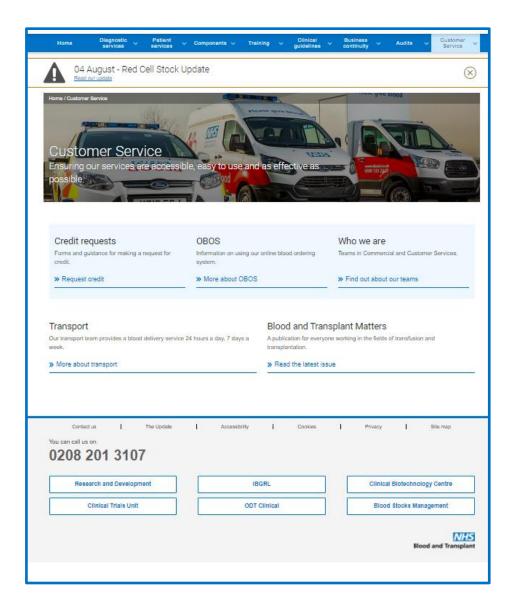




- O D negative red cell toolkit
- Information to prevent wastage
- Promote the safe and appropriate use of O D negative red cells
  - Current Demand
  - Guidance
  - Good Practice
  - Infographics

### **Hospitals and Science Website**





#### Customer Services

- Advice on blood components and our services
- Investigating complaints and compliments
- Measuring your satisfaction
- Improve our customers' experience
- Supporting you to deliver the best care for your patients

#### PBM

- Promote the safe and appropriate transfusion of all blood components across England
- Provide education, resources, specialist advice and support
- Essential link between supply and demand for blood components
- National Comparative Audits of Blood Transfusion (NCABT)





## Thank you for listening

Thanks to Deepa Takhar and Richard Whitmore



### **Biomedical Scientist**

**Empowerment and Discussion Group** 



Thank you for joining us today!

Please remember to complete the feedback form, link in the chat

We look forward to seeing you at our next meeting:

