

# **The Principles of General Stock Management & Appropriate use of Group O D Negative RBC**

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TLM – Ipswich Hospital

# Why Manage our Stock?

- Precious donated resource
- Not infinite
- Reduce wastage
- Enable sufficient units to be available to patients when they need it



# So how do we do it?

- BSMS
- Audits/Reports
- MBOS (MSBOS)
- Routine tasks in the lab by all staff
  - MLA/MLSO
  - BMS
  - Seniors/TLM

# Blood Stocks Management Scheme

- Run by NHSBT
- Since 2001
- Understand and improve blood inventory across supply chain
- Data management system – VANESA



# VANESA

- Collect data of usage and wastage
- Real time data and charts
- Produce an annual report
- Hospitals upload their daily stock holding figures and monthly wastage figures
- Quarterly reports
- Enables donor units to be used effectively and appropriately and minimise wastage



# VANESA

Home	Adult Red Cell ▼	Adult Platelet ▼	Frozen ▼	Hospital Profile	HTT Audit Report ▼	Transparency Tables ▼	E-Reports ▼	Help
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## Red Cells Stock Entry - Ipswich Hospital

Select the date you wish to enter data for

20-04-2018 

[Show Yearly Calendar](#)

Blood Group	Ideal stock	Issuable stock	Nominal stock	Issuable Stock Index
O Pos	60	<input type="text" value="43"/>	8.51	5.05
O Neg	15	<input type="text" value="22"/>	2.32	9.47
A Pos	60	<input type="text" value="42"/>	8.42	4.99
A Neg	15	<input type="text" value="10"/>	1.97	5.07
B Pos	15	<input type="text" value="10"/>	1.61	6.22
B Neg	4	<input type="text" value="5"/>	0.42	11.88
AB Pos	6	<input type="text" value="4"/>	0.46	8.71
AB Neg	4	<input type="text" value="4"/>	0.27	14.64

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Last updated on 20 Apr 2018 15:52:49 by bsms0078. Most recent update was for 20 Apr 2018 on 20 Apr 2018 15:52:49 by bsms0078

# NHSBT PBM Team

- PBM – Patient Blood Management
- Monthly data – Hospital Highlight report
- WAPI – Wastage as a Percentage of Issues
- RBC O D Negative wastage



# MBOS

- Maximum Blood Ordering Schedule
- Recommendation for number of RBC units routinely Xmatched for certain surgical procedures
- List may not exhaustive
- Developed following review and audit of blood usage



# MBOS

## General Surgery

PROCEDURE	REQUEST	PROCEDURE	REQUEST
Anterior Resection	2	Gastrectomy – Partial	GSS
Aortic Aneurysm – Ruptured	5	Gastrectomy – Total	2
Aortic Aneurysm – Cold	5	Liver Biopsy	GSS
A.P.Resection	2	Mastectomy – Radical	GSS
Block Dissection of Neck	2	Mastectomy – Simple	GSS
Bowel Resection	GSS	Nephrectomy	GSS
Bypass Surgery	2	<b>Radical Retropubic Prostatectomy</b>	2
Cholecystectomy	GSS	Splenectomy	2
Colectomy/Hemicolectomy	GSS	Thyroidectomy	GSS
Cystectomy	2	TURBT	GSS
ERCP	GSS	TURP	GSS

## Obstetrics and Gynaecology

PROCEDURE	REQUEST	PROCEDURE	REQUEST
Anaemic in Labour	GSS	PET in Labour	GSS
APH	GSS	Placenta Praevia	2
Breech in Labour	GSS	Radical Vulvectomy	GSS
Ectopic	2	Retained Placenta	GSS
Elective LSCS	GSS	TAH	GSS
Emergency LSCS	GSS	TAH & BSO	GSS
Laparoscopy & Proceed	GSS	Trial of Labour	GSS
Laparotomy	GSS	Trial of Scar	GSS
Miscarriage	GSS	Vaginal Hysterectomy	GSS
Multiple Births	GSS	Wertheim's	GSS
Myomectomy	GSS		
Oophrectomy	GSS		
Ovarian Cystectomy	GSS		

## Orthopaedics

PROCEDURE	REQUEST	PROCEDURE	REQUEST
Amputation	GSS	Spinal Fusion	GSS
Bilateral THR	3	THR	GSS
Bilateral TKR	2	TKR	GSS
Discectomy	GSS	# Femur	GSS
Revision THR	4	# NOF	GSS
Hemiarthroplasty	GSS	Dynamic Hip Screw	GSS



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# Routine Laboratory Tasks

- Short dated stock list
- Maximum stock levels
- Stock check
- Stock rotation
- Use of Electronic Issue
- Understanding of the cold chain
- Communication
- Incident investigation



# Other Initiatives

- Stock Ambassadors
- Sending short dated stock to other hospitals
- Cross charging clinical areas for wastage
- Collection of peer data to show how much different doctors are administering.

**Does your hospital do something in particular to help with management of stock?**



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# Why is Group O D Negative so important?

- Precious donated resource
- Not infinite
- Universal group
- 7% UK population O D Neg
- 11% Donors O D Neg
- 12% Hospital demand for O D Neg
- NHSBT aim to maintain 6 days stock
- Monday 16<sup>th</sup> April – 4 days O D Neg stock
- Total blood usage decreasing but O D Neg usage remains constant



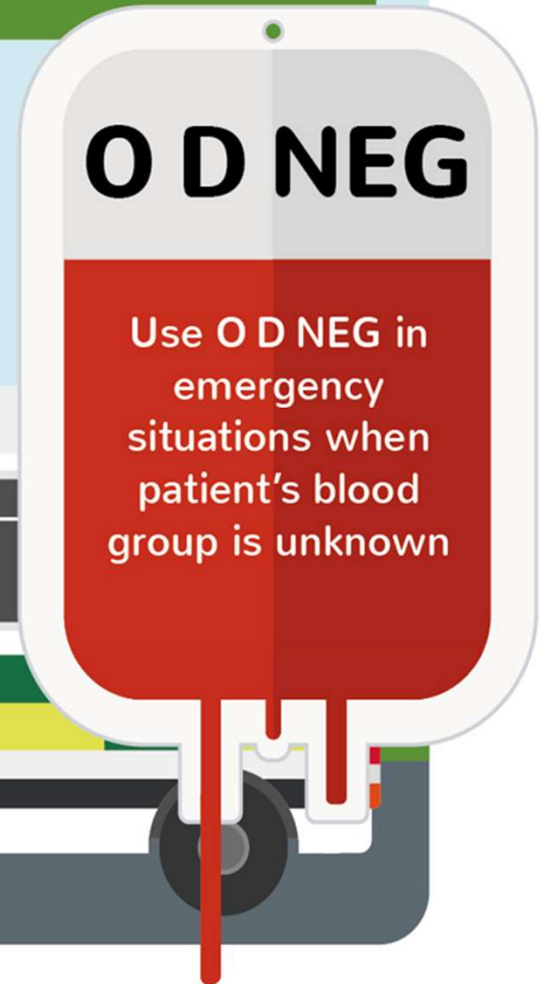
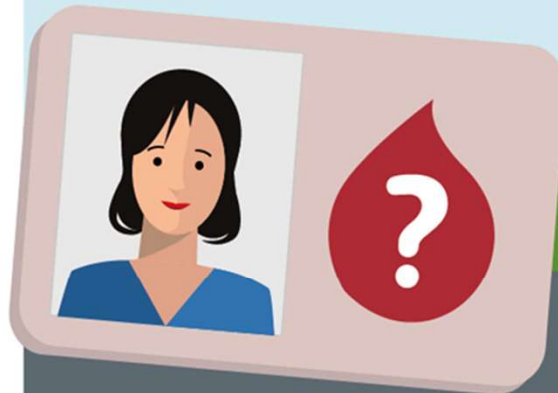
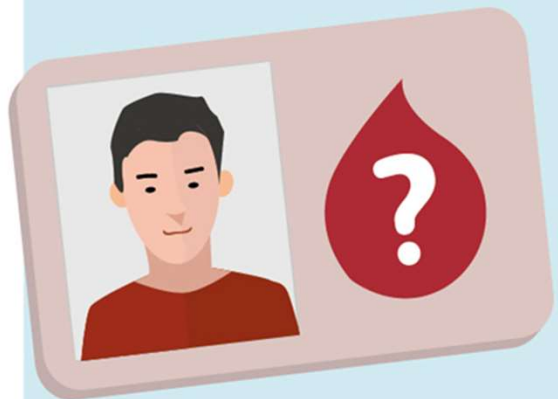
# Appropriate use of O D Negative

O D Negative should be used for:

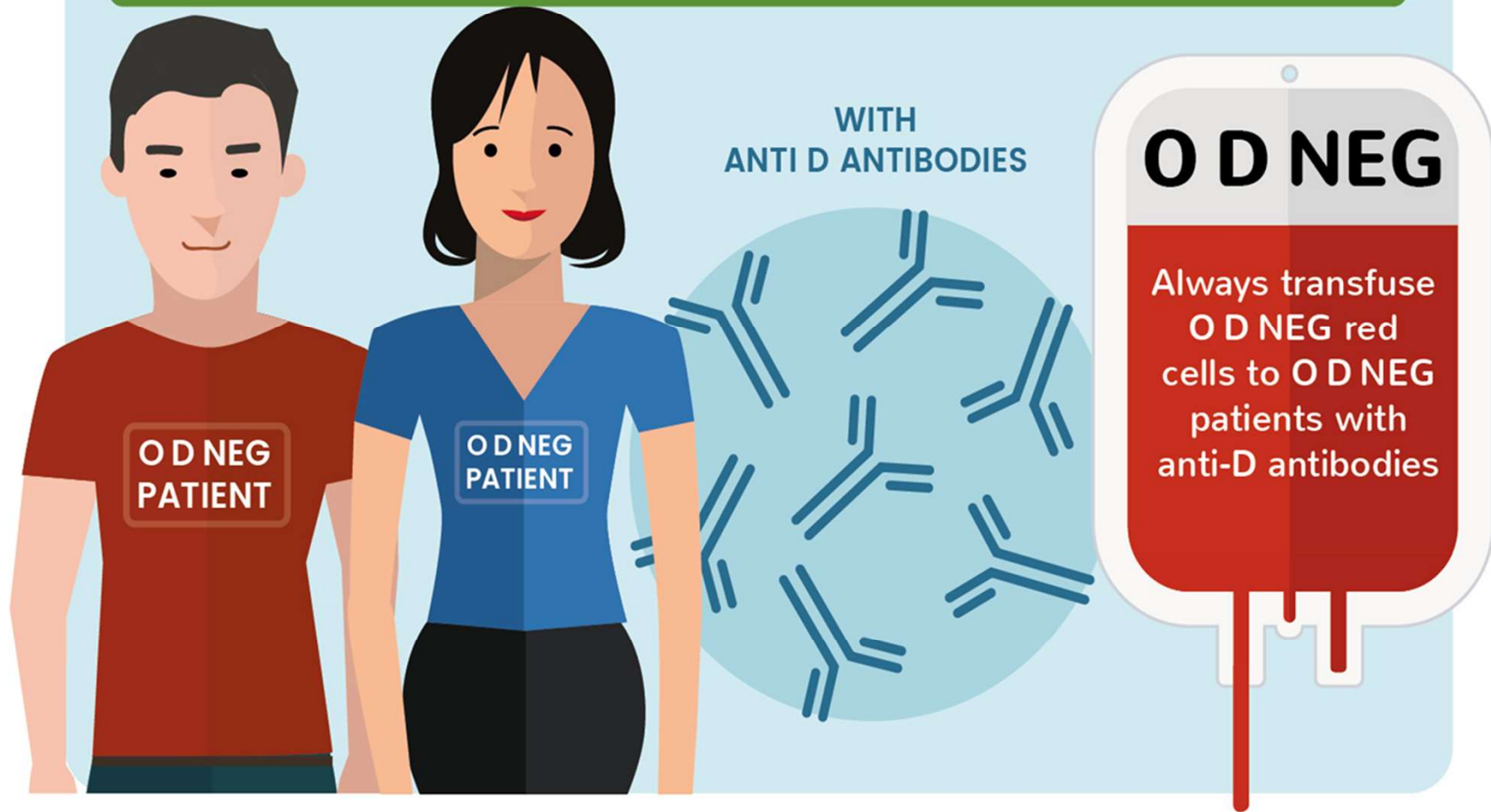
- O D Negative patients
- O D Negative patients with anti-D
- Emergency
  - Women of child bearing age
  - Males <16yrs



# WHEN TO USE O D NEG



# WHEN TO USE O D NEG



# WHEN TO USE O D NEG



**O D NEG**

In emergencies  
transfuse O D NEG  
to females under  
50 years of age  
with unknown  
blood type

# Appropriate use of O D Negative

Consider O D Positive for:

- Situations when more than 8 units of O D Neg are requested for women over childbearing age and adult men
- Unknown adult males



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# CONSIDER USING O D POS

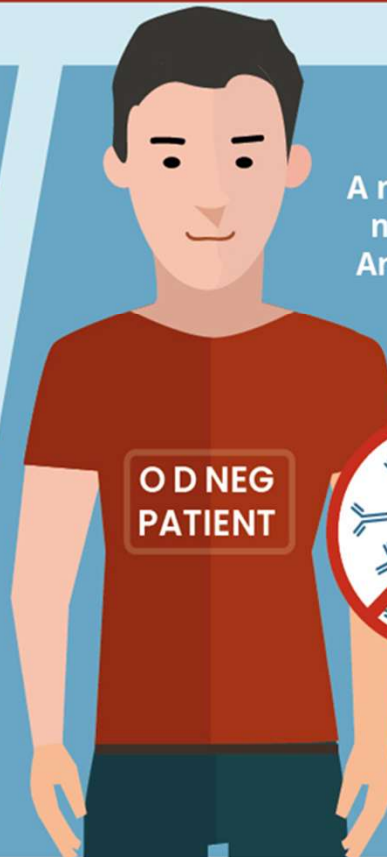


If you will require more than **8 units of O D NEG** consider using **O D POS** for the patients below



A female  
who is  
more than  
50 years old

O D NEG  
PATIENT



A male with  
no Anti-D  
Antibodies

O D NEG  
PATIENT

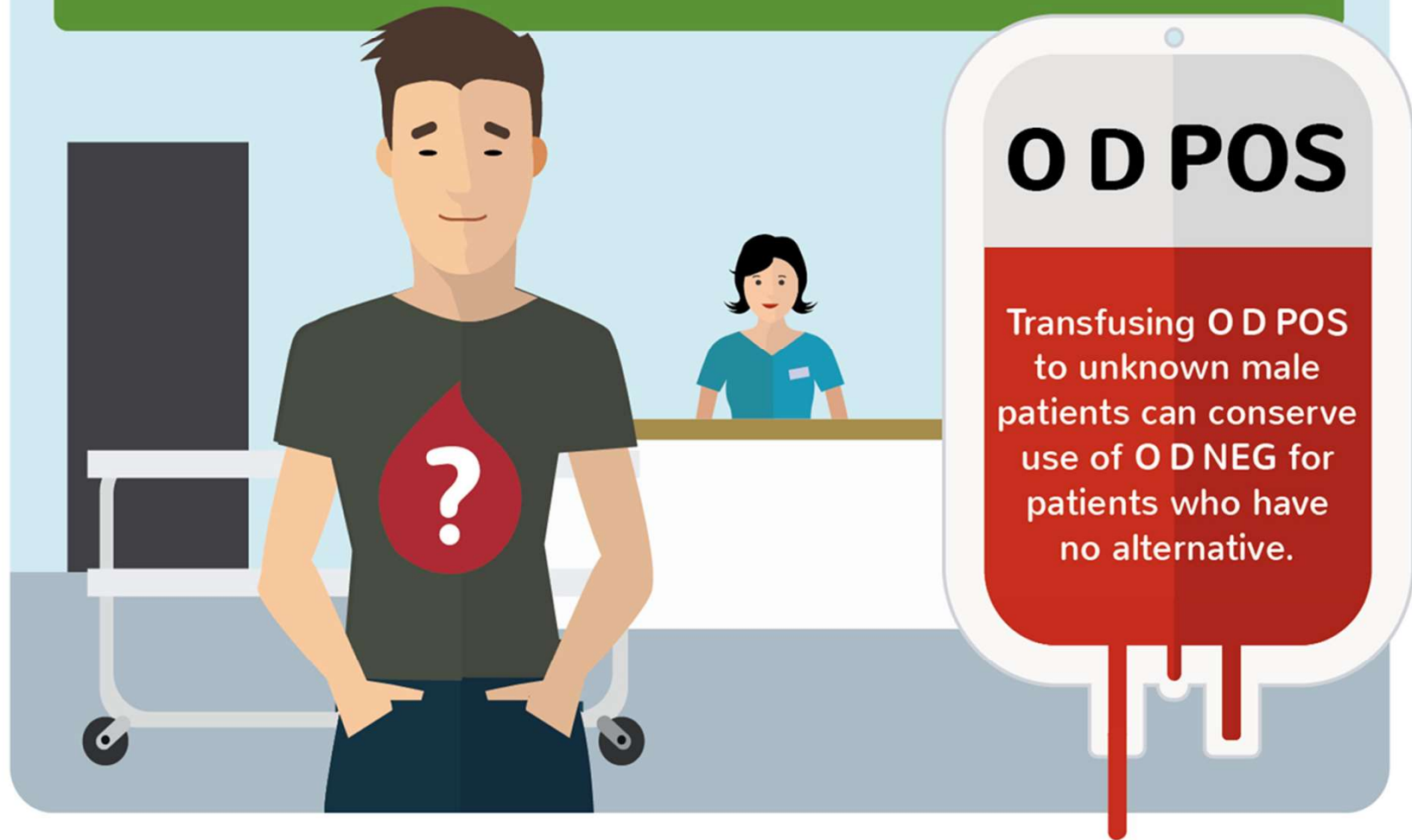


## O D POS

In these  
situations  
use O D POS  
instead



# CONSIDER USING O D POS



# Manage O D Negative stock

- Set an appropriate stock level to reflect local usage (stated target is 10.5% of total stock)
- Minimise wastage
- Rotation of unused emergency O D Neg
  - Weekly?
- Empower lab staff to query inappropriate requests
- Move to group specific units ASAP
- Audit use of O D Neg emergency stock
- Stock sharing



# Campaign

- “Save one O D Neg a week”
  - “O D Neg Toolkit”



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**Thank you for listening**

**Any Questions?**



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