

MASSIVE OBSTETRIC HEMORRHAGE- HOW TO TACKLE?

DR J P RATH
CONSULTANT CRITICAL CARE
OBSTETRICS



Reaching The Unreached FOGSI 2010 INITIATIVE

What is massive---- and why is it difficult to handle



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Massive Obstetric Hemorrhage

What is it??

- Blood loss from uterus or genital tract $>1500\text{ml}$
- Fall in Hemoglobin $> 4\text{g/dL}$
- Acute transfusion > 4 units blood
- Any blood loss seriously compromising life of patient



Massive Obstetric Hemorrhage

- Blood loss may be:
 - Antepartum:
 - Placenta previa
 - Abruptio placentae
 - Uterine rupture
 - Postpartum
 - Uterine atony
 - Retained products
 - Genital tract trauma
 - Uterine inversion
 - Coagulation disorder





Massive Obstetric Hemorrhage


Blood loss notoriously difficult to assess in Obstetrics
May be concealed

Presence amniotic fluid makes accurate estimation challenging

Hypotension is a late sign in the parturient




Extreme Haemorrhage: Type of Delivery



normal vaginal	20%
instrumental vaginal	8%
elective caesarean	13%
emergency caesarean	50%

ASSESSING SEVERITY

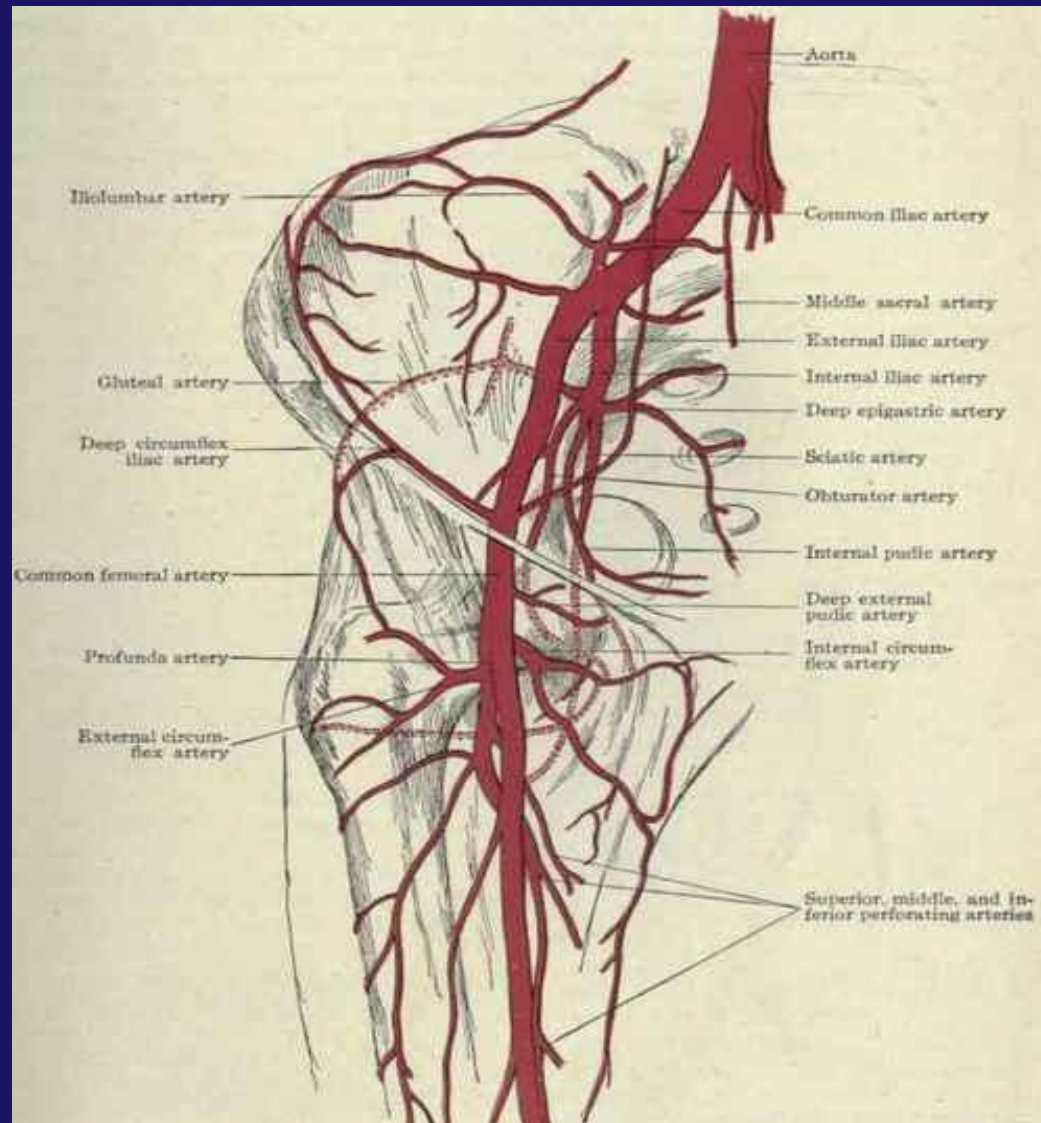
A stylized orange human figure with arms raised, positioned on the left side of the slide.

Loss in ml	Appearance	MAP	Heart Rate	Respiration
500-1000	Normal	80-90	<110	normal
1000-1500	Clammy, sweating	60-80	120	tachypnea
1500-2000	Clammy, collapsed	50-60	thready	shallow
2000-2500	Unconscious	<40	Unrecordable	Air hunger, gasping

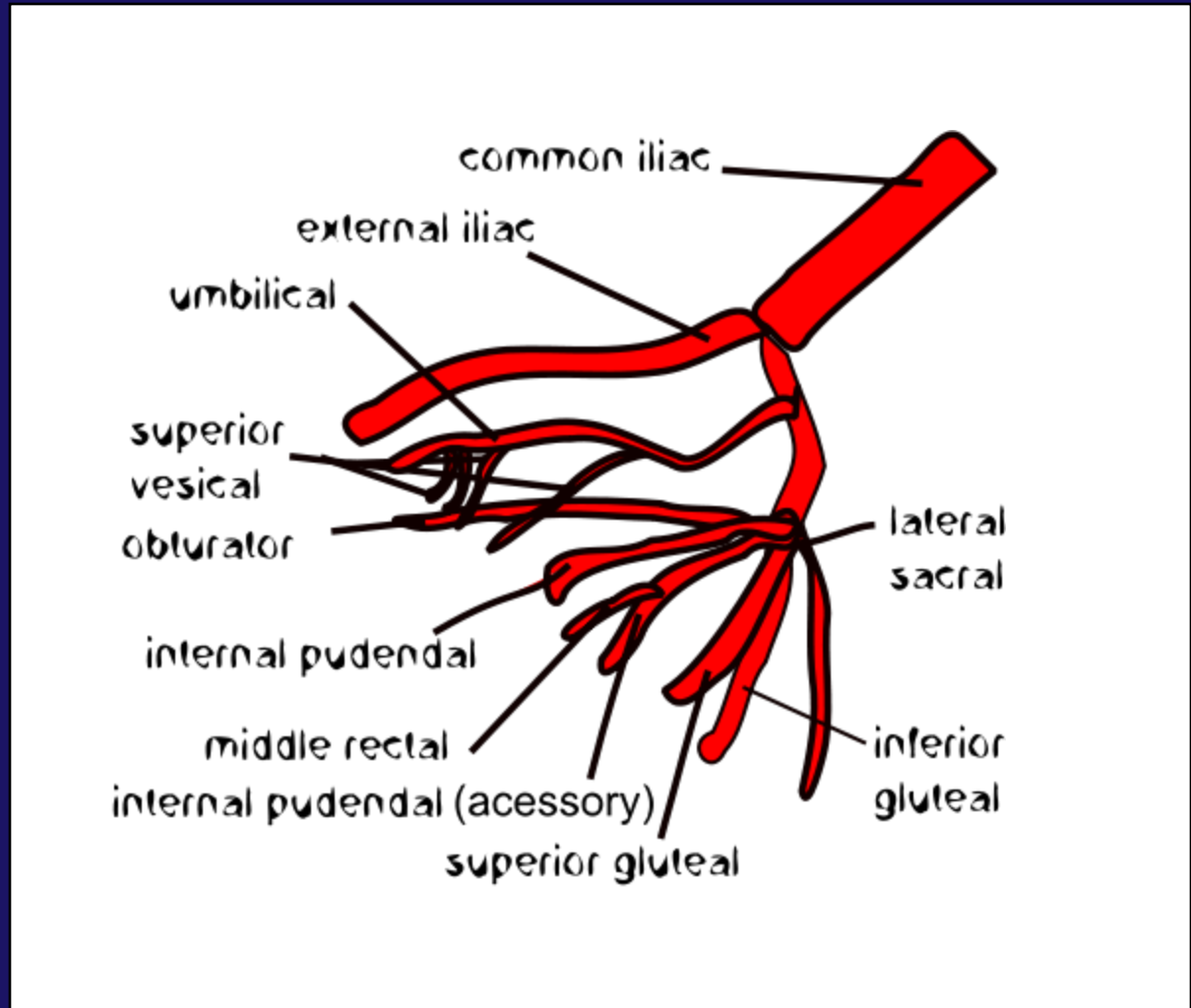
Count down in reverse

- Very clear about Management
- **HELP**
- Time in hand
- Resource setting
- Inform relatives
- ICU shift
- SOS shift with precaution to tertiary setting





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Approach to Severe Haemorrhage

- Anticipate
- Prepare
- Recognize
- Mobilise assistance
- Communicate
- Diagnose
- Delegate



Resuscitation

- High inspired oxygen
- Left lateral tilt if antepartum
- Adequate venous access (2), central line with Rapid infuser kit
- Pressure bags
- Crystalloid or colloid until blood available
- Replace blood 1:1 if using colloid, 3:1 for crystalloid
- Vasopressors to maintain BP until circulating blood volume restored

PPH - The 4 “Ts”

- Tone (uterine atony)
- Tissue (retained products)
- Trauma (cervical and genital tract damage during delivery)
- Thrombin (coagulation disorder), eg severe pre-eclampsia

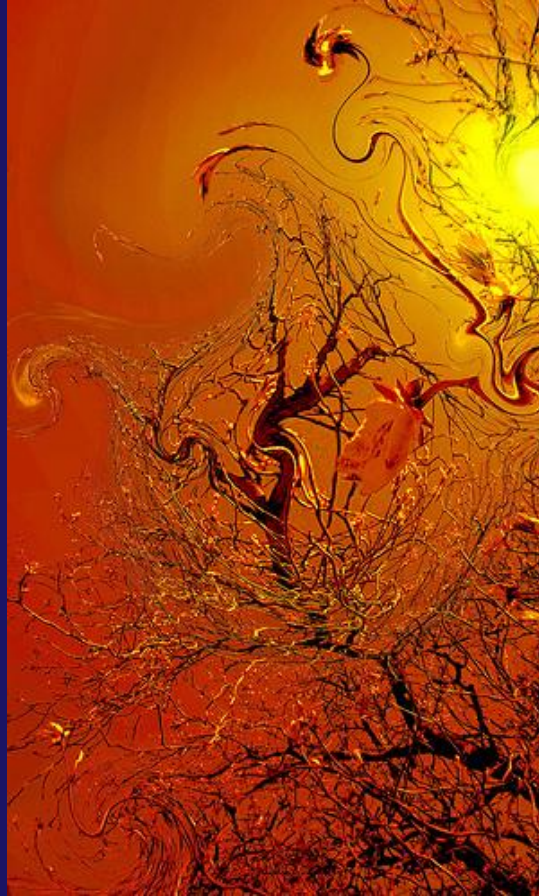


SATISFACTION GUARANTEED



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COMPLEXITIES



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