Severe Maternal Morbidity (SMM)



Based on the findings of Severe Maternal Morbidity in Ireland Annual Report 2019

In this audit, a case of SMM was defined as a pregnant or recently-pregnant woman who experienced any one of sixteen maternal morbidities.

375 SMM

Among 57,983 maternities in the 19 Irish maternity units in 2019

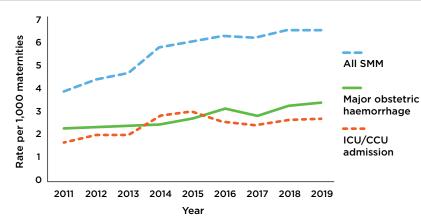


Figure 1. Trend in rate of SMM, major obstetric haemorrhage and intensive care admission/coronary care admission (ICU/CCU), 2011-2019. **68% increase in SMM rate since 2011**.

Most common morbidities

51% Major obstetric haemorrhage			
9%		%	Renal or liver dysfunction
8%			Peripartum hysterectomy
	7%	Pu	Imonary embolism
5%	5% Septicaemic shock		
3% Uterine rupture			
2%	Eclampsia		
2%	Pulmonary oedema		

1/155 Incidence of women experiencing a SMM is one in 155 maternities



154 women

(41%) were admitted to Intensive Care Unit/Critical Care Unit

16 MATERNAL MORBIDITIES AUDITED, DEFINED AS:

- major obstetric haemorrhage (MOH)

 estimated blood loss ≥ 2500ml
 and or transfused 5 units of blood
- uterine rupture
- peripartum hysterectomy
- eclampsia
- renal or liver dysfunction
- pulmonary oedema
- acute respiratory dysfunction
- pulmonary embolism
- cardiac arrest
- coma
- cerebrovascular event
- status epilepticus
- septicaemic shock
- anaesthetic complications
- admission to an intensive care or coronary care unit
- interventional radiology

A multiple pregnancy was associated with more than a threefold increase risk of SMM

Obese women had a 52% increased risk of SMM **\$**x4.5

Perinatal mortality rate (PMR) was 4.5 times higher in women experiencing SMM

Selected Recommendations

- Robust clinical audit on adverse maternal outcomes requires the protected time of clinical staff. Funding should be provided by the Health Service Executive (HSE) to facilitate the same.
- Research on the incidence of morbidly adherent placenta in Ireland is warranted.
- Antenatal education:

(a) Antenatal education/information should be provided by the multidisciplinary team to women to ensure an understanding of maternal morbidity and complication awareness.

(b) When a pregnant woman is identified as high risk for significant morbidity, specific education should be available to her during antenatal birth preparation.

(c) The national standards on antenatal education should provide guidance on specific education for maternal morbidity awareness.

National Perinatal Epidemiology Centre Department of Obstetrics and Gynaecology University College Cork +353 (0)21 420 5053 npec@ucc.ie www.ucc.ie/en/obsgyn/npec or @NPEC_UCC

5th Floor Cork University Maternity Hospital Wilton, Cork T12 YEO2

The full report is available on the NPEC **website**



NATIONAL PERINATAL EPIDEMIOLOGY CENTRE





