

# Umbilical Cord Prolapse Guideline

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LOCSSIP Reference:		NATSSIP Standard:	List standard ( <a href="#">NATSSIPS Standards</a> )		
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1	In progress	Obstetric Group Audit & Research Group	12/02/2021	26/4/2021	12/02/2024

Brief Summary of Document:	To recognise and manage Umbilical Cord Prolapse in pregnancy.
Scope	All Maternity areas within Hywel Dda University Health Board. 'The term "woman/women" in the context of this document is used as a biologically based term and is not intended to exclude trans and non-binary people who do not identify as women.'

To be read in conjunction with:	
Patient Information:	

Owning group	Obstetric Guideline and Audit Group.
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Reviews and updates		
Version no:	Summary of Amendments:	Date Approved:
1	New guideline	
2	Revised	12/02/201

## Glossary of terms

Term	Definition
CP	Cord Prolapse
PROMPT	Practical Obstetric Multi Professional Training
RCOG	Royal College of Obstetricians and Gynaecologists

Keywords	Cord Prolapse, Occult, Overt, Knee-Chest, face down position, Exaggerated Sim's Position.
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### **Cord prolapse guideline**

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## 1. Aim of Guideline

The aim of this guideline is to provide guidance and to standardise the recognition, management and documentation of Cord Prolapse.

## 2. Objectives

The objective of this guideline is to reduce fetal mortality/morbidity by ensuring early recognition and correct management of Cord Prolapse utilising PROMPT guidance.

## 3. Scope

The scope - All Maternity areas within Hywel Dda University Health Board.

- All midwives and Obstetricians should be mindful to exclude CP when abnormal fetal heart rate is detected.
- Consider the administration of tocolytics if appropriate.
- All staff should be aware of optimal maternal positioning on diagnosis of CP
- All staff should be aware of how to fill maternal bladder to alleviate cord compression if deemed necessary.
- All staff need to recognise the risk factors for CP.
- All staff need to be aware to call for immediate and appropriate help.
- To communicate effectively with the woman, partner and the multi-professional team.
- To understand the importance of appropriate documentation.

## 4. Introduction

Cord Prolapse has been defined as the descent of the umbilical cord through the cervix, either alongside (occult) or past (overt) the presenting part, in the presence of ruptured membranes.

Cord presentation is the presence of the umbilical cord between the fetal presenting part and the maternal cervix, with or without intact membranes.

## 5. Incidence

The incidence of umbilical cord prolapse ranges from 0.1% to 0.6% of all births. In breech presentation the incidence is around 1%.

## 6. Risk factors for Cord Prolapse

Antenatal

- Breech Presentation
- Multiparity
- Fetal Congenital abnormalities
- Unstable Lie
- Oblique or transverse lie
- Polyhydramnios
- External cephalic version
- Low birth weight (less than 2500g)

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## Intrapartum

- Amniotomy (especially with a high presenting part)
- Unengaged presenting part
- Internal podalic version
- Second twin
- Disimpaction of fetal head during rotational operative vaginal birth or other manipulation of the fetal head
- Fetal scalp electrode application
- Stabilising induction of labour
- Large balloon catheter induction of labour

## 7. Recognition

- CP should be excluded at every vaginal examination. Auscultate the fetal heart rate, if not having continuous electronic fetal monitoring, after each vaginal examination and after spontaneous or artificial rupture of membranes.
- CP should be suspected when there is an abnormal fetal heart rate pattern (eg prolonged deceleration) in the presence of ruptured membranes, particularly if such changes commence soon after membrane rupture.
- A speculum and/or digital vaginal examination should be performed when CP is suspected, regardless of gestation.
- Mismanagement of abnormal fetal heart rate patterns is one aspect identified in perinatal death associated with CP.

## 8. Management

Call for help (Experienced Obstetrician, Midwife coordinator, additional maternity team assistance, neonatal team, Anaesthetist, Theatre Team).

If outside of an Obstetric facility call 999 for immediate emergency response. Notify Labour Ward co-ordinator of imminent transfer.

Clearly state the Obstetric Emergency.

Follow Algorithm for the Management of Cord Prolapse (appendix 2).

## 9. Documentation

- Ensure clinical notes and CP Proforma (appendix 1) are fully completed.
- Ensure case is Datix reported under “maternity trigger”.
- Debrief woman and birth partners
- Ensure immediate paediatric review of newborn and ensure findings are clearly documented in baby notes
- Ensure paired cord blood gases are taken and documented accordingly
- Ensure women are offered RCOG patient information leaflet-Umbilical cord prolapse in late pregnancy.

## 10. Auditable Standards

1. Minimise cord compression by placing mother in exaggerated Sim's or knee chest position or filling bladder with 500-700 mls of sodium chloride through urinary catheter if there is a delay in delivery
2. Immediately commence continuous electronic fetal monitoring
3. If in labour, give Terbutaline 250 mcg by sc injection

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4. Paediatrician to be present at delivery
5. Paired cord gasses to be taken at delivery & recorded in the maternal health record

### 11. References

Winter,C. Crofts,J. Draycott,T (2017), PROMPT, Practical Obstetric Multi-Professional Training, Cambridge:Cambridge University Press.

RCOG. Green-top Guideline No. 50. (2012), Cord Prolapse.

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## 12. Appendix 1. (available from emergency folders in all areas)



Addressograph or name and unit no
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### CORD PROLAPSE PROFORMA

Please tick the relevant boxes

Diagnosed:    Home     Birth Centre     CDS     Ward

Time of diagnosis:.....

Cervical dilatation at diagnosis: ..... cm

#### If at Home / Birth Centre

Ambulance called?    Yes     No     Time called: .....    Arrived: .....

CDS contacted?    Yes     No     Time called: .....    Arrival time at Hospital: .....

#### If on CDS/Ward

Senior Midwife called    Yes     No     Time.....    Arrived.....

Senior Obstetrician called    Yes     No     Time.....    Arrived.....

Grade of Obstetrician: .....

Neonatologist called    Yes     No     Time.....    Arrived.....

Procedure used in managing cord prolapse		
Elevating the presenting part manually	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Filling the bladder	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Exaggerated Sims (left lateral) / Knee-Chest position / Head Tilt / Trolley / bed (Please circle)		
Tocolysis with sc Terbutaline 0.25mg or other	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Decision to birth interval: .....minutes		
Mode of birth		Mode of Anaesthesia
Spontaneous vaginal <input type="checkbox"/>		GA <input type="checkbox"/>
Forceps <input type="checkbox"/>		Spinal <input type="checkbox"/>
Ventouse <input type="checkbox"/>		Epidural <input type="checkbox"/>
LSCS <input type="checkbox"/>		
Apgar Score		Baby's weight:
:1 min		Cord PH
:5 min		Base Excess:
:10 min		Arterial:
Admission to NICU?    Yes <input type="checkbox"/> No <input type="checkbox"/>		
AIMS form completed?    Yes <input type="checkbox"/>		
Known Risk Factor?    YES <input type="checkbox"/> NO <input type="checkbox"/> If YES, please state:		
Mother debriefed    Yes <input type="checkbox"/> No <input type="checkbox"/>		

Signature: .....

Print: .....

Designation: .....

Date: .....

MCP 29207

### Cord prolapse guideline

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## 13. Appendix 2 (available from emergency folders in all areas)



### Algorithm for the management of umbilical cord prolapse

