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#### Handling of Cytotoxics by Pregnant Staff Procedure.

#### Introduction and Aim

The aims of this Procedure are to:

- ensure exposure to cytotoxic drugs is minimised for staff who are pregnant, trying to conceive or breast feeding
- provide principles for the safe handling of cytotoxic drugs, and cytotoxic waste, which are supported by risk assessments

This document supports the Parenteral Cytotoxic Chemotherapy Policy.

#### **Objectives**

- To ensure the safety of new/pregnant mothers, or staff who are trying to conceive
- To provide managers with guidance to ensure the risks to new and expectant mothers who may handle cytotoxic agents, or waste, are assessed and necessary measures taken to reduce them to as low as reasonably practical
- To provide staff with information on the options available to them

#### Scope

This procedure applies to any area in Cardiff and Vale University Health Board (UHB) where cytotoxic drugs are reconstituted or administered. Administration may be through any of the following routes: intravenous, oral, subcutaneous, intramuscular, intrathecal, intravesical, intraversical, intravitreal, subconjunctival and topical. It also applies to any waste products related to the reconstitution or administration of such drugs.

|  | <del>-</del>  |  |  |
|--|---|--|--|
| Equality and Health Impact Assessment      | An Equality and Health Impact Assessment (EHIA) has been completed and this found there to be a positive impact. Key actions have been identified and these can be found in the EHIA incorporated within this document.   |  |  |
| Documents to read alongside this Procedure | <ul> <li>Management of Parenteral Cytotoxic Chemotherapy<br/>Procedure</li> <li>Risk Assessment for New and Expectant Mothers<br/>Procedure</li> <li>Extravasation Procedure</li> <li>Waste Management Policy</li> <li>Health and Safety Policy</li> <li>Control of Substances Hazardous to Health (COSHH)<br/>Procedure</li> </ul> |  |  |
| Approved by                                | Medicines Management Group  |  |  |



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#### **Disclaimer**

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| Version<br>Number | Date of<br>Review | Date Published | Summary of Amendments   |
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| 1                 | March<br>2011     | 08/04/11       | New document  |
| 2                 | July 2014         | 17/09/15       | Up-dated in line with current evidence and recommendations and summary of these recommendations added under Implementation/Summary.  References up-dated. |
|                   |                   |                | Risk assessments reviewed and minor changes made. Tool up-  |
|                   |                   |                | dated.  |
|                   |                   |                | Equality impact assessment updated.   |
|                   |                   |                | Re-formatted as per requirements for all Cardiff & Vale written contro documents.   |
| 3                 | 18/01/18          | 19/06/18       | Up-dated in line with current evidence and recommendations. Information added on the use of Closed System Devices.  |
|                   |                   |                | References up-dated.  |
|                   |                   |                | Risk assessments reviewed and changes made to reflect the implementation of the Closed System Devices and the introduction of Ambulatory Care.            |
|                   |                   |                | Equality and Health Impact<br>Assessment up-dated.  |
|                   |                   |                | Re-formatted as per requirements for all Cardiff & Vale UHB written control documents.  |

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#### HANDLING OF CYTOTOXICS BY PREGNANT STAFF PROCEDURE

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#### **Appendices**

- 1 Risk assessment checklist for new and expectant mothers
- 2 Example of generic risk assessment for handling cytotoxics
- 3 Equality and Health Impact Assessment



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#### 1.0 INTRODUCTION

Various studies have demonstrated links between occupational exposure to cytotoxic drugs and the following: menstrual dysfunction, sub-optimal fertility, miscarriages, stillbirths, low birth-rate and congenital abnormalities. However, these studies were mostly carried out either in the 1980s, or based on staff exposure in the 1980s; when the use of personal protective equipment and safe-handling techniques were not as well established as they are now. These studies do not on the whole reflect current working practices; which now include the use of Closed System Devices during the administration process. Defined as devices which 'do not exchange unfiltered air or contaminants with the adjacent environment' (NIOSH 2004/2016), these are in use throughout Cardiff and Vale UHB wherever intravenous (IV) chemotherapy is administered; their aim being to reduce the risks associated with exposure to cytotoxic agents.

Other more recent studies have failed to find a statistically significant association with spontaneous abortion and congenital malformation. This might be due to increased awareness of the risk and the use of protective clothing and equipment, or alternatively, the avoidance of cytotoxic handling by staff if they are pregnant.

A further review of 447 patients who received chemotherapy whilst pregnant concluded that the use of chemotherapy in the second and third trimesters would appear to be safe (<a href="http://www.breastcancer.org/research-news/20120821-2">http://www.breastcancer.org/research-news/20120821-2</a> {2012}).

The period of greatest risk to the developing foetus is considered to be during the first trimester; which is the time of most rapid cell division and differentiation (<a href="www.ecancer.org">www.ecancer.org</a> 2014). Guidance from the Health and Safety Executive (HSE 2002) for new and expectant mothers states that because a safe level of exposure can-not be determined, everything possible should be done either to avoid exposure, or reduce it to as low a level as is reasonably practicable.

#### 2.0 POLICY STATEMENT

Cardiff & Vale UHB is committed to ensuring that parenteral cytotoxic chemotherapy is administered safely and that the organisation is compliant with national guidance. This Procedure will ensure that new and pregnant mothers' exposure to cytotoxic agents is either eliminated or significantly reduced. This document is related purely to staff who are pregnant, have given birth within the last six months, or who are still breastfeeding.



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#### 3.0 ROLES AND RESPONSIBILITIES

The prescribing, preparation, supply, checking and administration of cytotoxic chemotherapy must be undertaken by staff trained, assessed and accredited to do so. The following identifies who will be accountable for ensuring implementation of this procedure:

#### 3.1 Chief Executive/Health & Safety Committee

The Chief Executive/Health & Safety Committee are responsible for:

 Ensuring arrangements are in place to implement the Handling of Cytotoxics During Pregnancy Procedure

#### 3.2 Line Manager

Line Managers are responsible for:

- Reviewing existing risk assessments when informed that an employee is pregnant. Please see the following:
  - Table 1 for specific activity risk guidance
  - Appendix 1: Risk assessment Checklist for Assessment of New and Expectant Mothers
  - -Appendix 2: Example of generic risk assessment for handling cytotoxics during pregnancy)
- Informing members of staff about the potential risks and the measures taken to prevent exposure to these risks
- Regularly reviewing the risk assessment

#### Advice to Line Managers:

The emphasis is to reduce occupational exposure to all staff at all times to as low as reasonably practicable. The Activity Risk Assessment in Table 1 should be used as guidance. Any activities not listed should be risk assessed using the same criteria. Assistance can be provided by the authors of this document.

Certain activities where open systems are used have been assessed as higher risk for pregnant staff and therefore pregnant staff must not undertake the activities in the higher risk category (Table 1: Activity Risk Assessment). In addition pregnant carers whose relative/friend is receiving ambulatory chemotherapy should also be advised not to handle a chemotherapy spillage and to avoid contact with bodily fluids.

Medium risk activities, where closed systems and PPE are used to reduce the risk of direct exposure, may be undertaken by new or pregnant mothers following:

- risk assessment of the specific activity



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- provision of relevant information
- identification and implementation of the necessary control(s)
- -discussion and agreement between the member of staff and their line manager

Low risk activities, where there is deemed to be no risk of direct exposure to cytotoxic drugs, may be undertaken by new or expectant mothers.

If, after safety measures have been implemented, there is still deemed to be a significant risk to the new or expectant mother, which goes beyond the level of risk expected outside the workplace, then the following HSE (2014) guidance should be followed (in conjunction with Occupational health and /or Human Resources).

Step 1: temporarily adjust her working conditions and/or hours of work; or, if it is not reasonable to do so, or would not avoid the risk...

Step 2: offer suitable alternative work if any is available. In line with current guidance, (RCN 2016, HSE 2016), pregnant staff and those trying to conceive should always be offered alternative duties if they choose not to work with cytotoxics at this time.) If that is not feasible, you must proceed to Step 3...

Step 3: offer leave from work (on full pay) for as long as is necessary to protect her health and wellbeing, or that of the developing foetus.

#### 3.3 Employee

Employees who are pregnant, or planning a pregnancy, are advised to:

- Inform their manager as soon as a pregnancy is planned, confirmed, or suspected (HSE 2014). When the Health Board receives notification, a risk assessment will be carried out by the line manager
- Comply with the risk assessment undertaken and follow the advice given
- Notify the Occupational Health Department of her pregnancy, or that she has given birth within the previous 6 months and/or is nursing a baby

#### 3.4 Occupational Health Service

It is the role of the Occupational Health Service to:

Provide advice to both new and expectant mothers regarding their health and their occupational hazards and risks



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Advise managers regarding their responsibilities

#### 3.5 Human Resources Staff

Human Resources staff may be required to:

- Assist managers and offer guidance if working conditions and / or hours of work have to be temporarily adjusted
- Support line managers who are looking for suitable alternative work for their staff
- Advise on the implications of suspending new or expectant mothers from work for the time necessary to protect the health and safety of the staff member or the un-born child

#### 3.6 Consultants

Consultants who use cytotoxic chemotherapy are responsible for:

- Training and assessing all medical staff involved in the administration of these agents
- Raising awareness of the existence of this Procedure and its contents

#### 3.7 Chemotherapy CNS

The Chemotherapy CNSs are responsible for:

- Training and assessing nurses who administer and check chemotherapy, and also training those staff involved in the care of patients who have received chemotherapy. Education regarding these guidelines will be incorporated into induction, the Chemotherapy Awareness Study Day and the Chemotherapy Administration Workshop
- Advising senior nurses/managers whose staff are involved in the handling of cytotoxics

#### 3.8 Chief Pharmacist

The Chief Pharmacist is responsible for:

- Ensuring that pharmacy staff who prepare, check or supply cytotoxic agents are trained and assessed on the risks
- Incorporating training on this Procedure into that training

#### 4.0 Guidelines

- 4.1 Staff should be encouraged to inform their manager as soon as a pregnancy is confirmed, or suspected (HSE 2014, MARCH guidelines, 2010). A risk assessment will then be conducted as per the UHB's procedure for risk assessment of new and expectant mothers. (See Appendix 1)
- 4.2 Staff who are pregnant, or planning a pregnancy, should be able to discuss in confidence any concerns with their manager and/or



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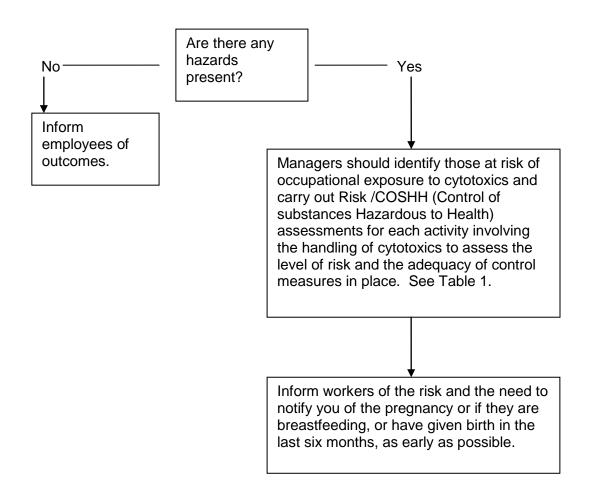
chemotherapy CNS; and ensure they receive sufficient information to be able to make an informed decision about their options

- 4.3 As some pregnancies are un-planned, all staff should be made aware of the potential risks as part of their induction programme and advised of the need to follow local policies and procedures at all times. (Staff will receive both verbal and written information during induction and on the 'Chemotherapy Awareness' training days)
- 4.4 In line with HSE guidance, pregnant staff should be removed from those duties that have been assessed as being higher risk. (Please refer to those activities listed in red in Table 1)
- 4.5 Managers will need to be aware of staffs' concerns regarding the handling of cytotoxics during pregnancy. Alternative duties may be offered to those who work with cytotoxics at this time
- 4.6 Finally, a comprehensive method of staff education and risk assessment should be in place (Dougherty and Lister 2015) and safe handling procedures audited regularly to reduce the risks to as low a level as possible for all staff.



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#### **Stage 1 Initial Assessment**



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## Table 1 Activity Risk Assessment

| Low         | No risk of direct exposure to cytotoxic drugs                | Can be undertaken by pregnant staff  |
|-------------|--|--|
| Medium      | Use of closed systems eliminating direct exposure. PPE used. | May be undertaken by pregnant staff following:  risk assessment specific activity  provision of relevant information  identification and implementation of necessary controls  discussion and agreement between the member of staff and the line manager |
| Higher risk | Open systems, higher risk of direct exposure. PPE used       | Pregnant staff must not undertake this activity  |

| Activity                              | Site                        | Professional group                 | Hazard | Risk | Control |
|---------------------------------------|-----------------------------|------------------------------------|--------|------|---------|
| Prescribing                           | Clinic, Day Unit or<br>Ward | Medical or non-medical prescriber  | n/a    | low  | n/a     |
| Checking prescriptions                | Ward, Pharmacy              | Pharmacist                         | n/a    | low  | n/a     |
| Preparing manufacturing documentation | Pharmacy                    | ATO                                | n/a    | low  | n/a     |
| Maintaining clinical trial records    | Pharmacy                    | Pharmacist, Pharmacy<br>Technician | n/a    | low  | n/a     |

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| Activity  | Site                      | Professional group             | Hazard  | Risk   | Control   |
|---|---------------------------|--------------------------------|---|--------|---|
| Assembling components for manufacture   | Pharmacy                  | ATO                            | Skin contact  | medium | PPE: Nitrile gloves   |
| Checking documentation and assembly of raw materials  | Pharmacy                  | ACT                            | Skin contact  | medium | PPE: Nitrile gloves   |
| Dispensing solid oral doses   | Pharmacy                  | ATO, technician, pharmacist    | Skin contact  | medium | Blister packs Film coated tablets PPE: Nitrile gloves                                     |
| Aseptic processing using closed systems and isolator workstations   | Pharmacy clean room       | ATO, technician,<br>Pharmacist | Skin contact<br>Inhalation of<br>aerosol                          | higher | Closed systems Negative pressure isolator work station Full PPE:                          |
| Checking finished products  | Pharmacy                  | Pharmacist, technician         | Skin contact<br>with material on<br>outside of final<br>container | medium | PPE: Nitrile gloves   |
| Delivery to clinical area   | Transfer                  | Porter                         | n/a   | low    | n/a   |
| Receipt and storing finished product  | Clinic, Day Unit,<br>Ward | Nurse                          | n/a   | low    | n/a   |
| Checking dose against prescription  | Clinic, Day Unit,<br>Ward | Nurse                          | n/a   | low    | n/a   |
| Intravenous administration using closed systems, subcutaneous, intrathecal and intramuscular administration | Clinic, Day Unit,<br>Ward | Nurse, Doctor                  | Skin contact.<br>Risk of<br>ingestion.                            | medium | PPE: latex gloves, apron, goggles. Closed system devices added to intravenous giving set. |

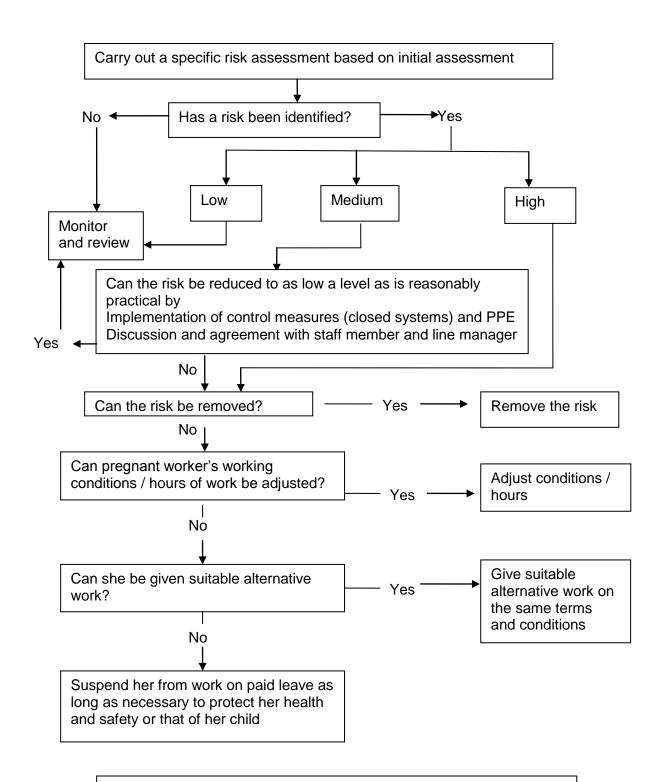
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| Activity   | Site                                | Professional group              | Hazard                     | Risk   | Control   |
|--|-------------------------------------|---------------------------------|----------------------------|--------|---|
| Oral administration  | Clinic, Day Unit,<br>Ward           | Nurse                           | Skin contact               | medium | PPE: latex gloves and apron                                     |
| Intravesical administration including withdrawal of solution | Clinic, Day Unit,<br>Ward           | Nurse                           | Skin contact – open system | higher | PPE: latex gloves, visor, apron                                 |
| Intra arterial administration for liver chemoembolisation    | Radiology                           | Radiologist                     | Skin contact – open system | higher | PPE: latex gloves and lead apron                                |
| Topical administration of cytotoxic drugs                    | Clinic, Day Unit,<br>Ward           | Nurse or surgeon                | Skin contact – open system | higher | PPE: latex gloves and apron                                     |
| Monitoring progress of infusion                              | Clinic, Day Unit,<br>Ward           | Nurse                           | n/a                        | low    | n/a   |
| Monitoring patient for toxicity                              | Clinic, Day Unit,<br>Ward           | Nurse, Doctor                   | n/a                        | low    | n/a   |
| Handling bodily fluids                                       | Clinic, Day Unit,<br>Ward           | Nurse, Doctor                   | Skin contact – open system | medium | PPE: latex gloves and apron                                     |
| Managing spilled body waste and contaminated linen           | Clinic, Day Unit,<br>Ward           | Nurse                           | Skin contact – open system | higher | PPE: latex gloves and apron                                     |
| Acute management of extravasation                            | Clinic, Day Unit,<br>Ward           | Nurse, Doctor                   | Skin contact – open system | higher | PPE: latex gloves and apron                                     |
| Handling spillage  | Pharmacy, Clinic,<br>Day Unit, Ward | Pharmacy staff or nursing staff | Skin contact – open system | higher | PPE: nitrile gloves, mask, eye protection, apron, shoe covering |
| Handling waste administration equipment                      | Clinic, Day Unit,<br>Ward           | Nurse                           | Skin contact               | medium | PPE; latex gloves and apron, use of closed                      |

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| Activity  | Site       | Professional group   | Hazard   | Risk   | Control   |
|---|------------|--|--|--------|---|
|   |            |  |  |        | systems   |
| Transfer of contained cytotoxic waste   | Transfer   | Operational services staff                                   | Skin contact – open system                               | low    | n/a   |
| Handling of urine from 24 hour collection for calculation of creatinine clearance | Laboratory | Medical Laboratory<br>assistants or<br>Biomedical scientists | Skin contact –<br>open system<br>(decanting of<br>urine) | higher | White lab coat, gloves, if labelled High Risk Biomedical scientist would handle rather than Lab assistant (extra precautions taken) |

#### Stage 2 On Notification of Pregnancy or Breast Feeding



All of the above should be monitored and reviewed on a regular basis

#### 5.0 RESOURCES

Additional training of senior staff/managers may be required as a result of this procedure.

#### 6.0 TRAINING

- All training must be carried out in compliance with Cardiff & Vale UHB's Parenteral Cytotoxic Chemotherapy Policy. Staff at risk of exposure to cytotoxics will receive formal training concerning management of these risks on induction and/or on the Chemotherapy Awareness Study Day and the Chemotherapy Administration Workshop; as well as on-going training as per the above policy
- 6.2 Training for senior nurses on the implementation of this procedure will be the responsibility of the Chemotherapy CNSs
- 6.3 Consultants using cytotoxic chemotherapy will take responsibility for ensuring that medics who administer these agents are fully aware of this procedure.
- 6.4 The Chief Pharmacist will ensure training of the appropriate pharmacy staff.

#### 7.0 IMPLEMENTATION / SUMMARY

Managers / senior nurses whose staff are involved in the handling of cytotoxics will be advised of the implementation of this procedure and offered training as required. Below is a summary of the most up to date recommendations based on current evidence.

- 7.1 All staff who are involved in the preparation, handling and administration of cytotoxics should familiarise themselves with, and abide by, both local and national policies (<a href="www.ecancer">www.ecancer</a> 2014). Staff should follow standard operating procedures and use appropriate PPE to ensure safe practice (<a href="www.ecancer">www.ecancer</a> 2014)
- 7.2 Pregnant staff should, wherever possible, be given the choice to avoid working in direct contact with cytotoxics (HSE 2003)
- 7.3 Staff are responsible for informing their employer of their pregnancy or if they are lactating (<a href="https://www.ecancer">www.ecancer</a> 2014, HSE 2013)
- 7.4 The 1<sup>st</sup> 12 weeks of a pregnancy have been identified as being when staff handling cytotoxics may be at the greatest risk of potentially harmful exposure. Staff should avoid handling cytotoxics during this time, or indeed when they are lactating. After this time staff must use PPE and adhere to standard safety procedures if they are to continue handling cytotoxics (www.ecancer 2014)
- 7.5 Staff involved in handling and administration of cytotoxics must receive appropriate training and education



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#### 8.0 FURTHER INFORMATION

Health and Safety Executive (2017) Royal College of Nursing (2016)

#### 9.0 RECOMMENDED READING

Breast.Cancer.org (2012).

Available at:

http://www.breastcancer.org/research-news/20120821-2 {2012}).

Accessed 28.09.17

Dougherty L, Lister S (2015). The Royal Marsden Hospital Manual of Clinical Nursing Procedures 9<sup>th</sup> edit. Oxford. Wiley-Blackwell.

Gilane S, Giridharan S (2014). Is it safe for pregnant health-care professionals to handle cytotoxix drugs? A review of the literature and recommendations. (8) 418-420.

Health and Safety Executive (HSE), (2003) Information Sheet MISC615. Safe handling of cytotoxic drugs.

Health and Safety Executive (2013) New and Expectant Mothers at Work: a guide for employers.

Health and Safety Executive (HSE), (2013), New and expectant mothers who work: a brief guide to your health and safety.

Available from: http://www.hse.gov.uk/pubns/indg373.htm

Accessed 25.09.17

Health and Safety Executive (HSE) (2017) FAQs

www.hse.gov.uk/MOTHERS/faqs.htm

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National Institute for Occupational Safety and Health (NIOSH), (2004 –updated 2016). Preventing Exposure to Antineoplastic and Other Hazardous Drugs in Healthcare Settings.

https://www.cdc.gov/niosh/docs/2016-161/

Accessed 28.09.17

RCN (2016) <u>Standards for Infusion Therapy: The RCN IV Therapy Forum.</u> 4th edit.

#### 10.0 EQUALITY

An equality impact assessment has been undertaken to assess the relevance of these guidelines on different groups specifically with regards to race, disability, gender, sexual orientation, religion/belief and Welsh language.



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| Group                                     |          |   |

The assessment identifies understandable gender bias, as the guidelines are largely aimed at pregnant or breast-feeding women. However everything possible has been done to address the concerns of both sexes who are trying to conceive and thus redress the balance.

#### **11.0 AUDIT**

Cytotoxic drug administration throughout the UHB is audited against the Department of Health Standards for Cancer Services and the Welsh Association of Chemotherapy Nurses Audit Tool every two years. A report of the audit is presented to the Clinical Standards Committee. Designated assessors participate in a programme of external assessment every two years.

#### **12.0 REVIEW**

Review date every 3 years in conjunction with the Policy on the Management of Parenteral Cytotoxic Chemotherapy.

#### 13.0 DISTRIBUTION

This document will be distributed in accordance with the Cardiff and Vale University Health Board Policy for the Management of Policies, Procedures and all other written Control Documents.



## APPENDICES APPENDICES

Appendix 1: Risk Assessment checklist for new and expectant mothers

| RISK ASSESSMENT CHECKLISTS FOR NEW AND   |   |          |  |  |
|--|---|----------|--|--|
| EXPECTANT MOTHERS  |   |          |  |  |
| Name of member of  |   |          |  |  |
| staff:   |   |          |  |  |
| Department:  |   |          |  |  |
| Occupation:  |   |          |  |  |
|  |   |          |  |  |
| Pregnancy or new mother  |   |          |  |  |
| details, date of   |   |          |  |  |
| commencing maternity   |   |          |  |  |
| leave/medical  |   |          |  |  |
| certificate from GP:   |   |          |  |  |
| Expected/Actual date of  |   |          |  |  |
| delivery:  |   |          |  |  |
|  |   |          |  |  |
| Has a risk assessment of the   | Has a risk assessment of the workplace been undertaken?  YES / NO |          |  |  |
| (MHSW1A – available on public folders, COSHH,                                  |   |          |  |  |
| Manual Handling)   |   |          |  |  |
| If NO, complete risk assessment as required – date completed:                  |   |          |  |  |
| Has a risk been identified?  |   | YES / NO |  |  |
| Has the employee been informed of the potential risk?                          |   | YES / NO |  |  |
| Do special precautions need to be considered?  YES / NO                        |   |          |  |  |
| Do you need to adjust her working conditions?  YES / NO                        |   |          |  |  |
| Are you able to offer her suitable alternative work (if applicable)?  YES / NO |   |          |  |  |

| Is there still a potential risk to th | YES / NO    |          |
|---------------------------------------|-------------|----------|
| If YES, does medical suspension       | n apply?    | YES / NO |
| Date:                                 |             |          |
|                                       |             | •        |
| Is referral to Occupational Healt     | h required? | YES / NO |
| Date referred to Occupational H       | lealth:     |          |
| Response received:                    |             |          |
| Action required:                      |             |          |
| •                                     |             |          |
|                                       |             |          |
|                                       |             |          |
| Name of person completing             |             |          |
| Name of person completing             |             |          |
| Name of person completing form:       |             |          |

#### **General Risk Assessment Form – Part 2**

| Reference Numbers |                |             |  |
|-------------------|----------------|-------------|--|
| UHB               | Clinical Board | Directorate |  |
| UHB wide          |                |             |  |

Premises/ Location (if applicable)

| UHW/LLandough/Chemotl | herapy |
|-----------------------|--------|
| Mobile Unit           |        |

Clinical Board/ Department

| <u>.</u> l |  |  |
|------------|--|--|
|            |  |  |
|            |  |  |

#### **Description of Activity/Risk Area: Handling Cytotoxics During Pregnancy.**

## Risk/Issued (Including Impact) to UHB due to shortfalls: Handling Cytotoxics During Pregnancy:

It is well recognised that chemotherapy has the potential to be teratogenic; meaning to cause harm to the developing foetus. The potential for exposure for the mother (to be) may occur during handling of packaging, inadvertent leakage during administration, skin contact if administering oral chemotherapy, cytotoxic spillage, contact with the drug whilst managing an extravasation and contact with bodily fluids containing metabolites of the drug.

Risk Domain (See Table 1 – Risk Matrix)

| Impact on the Safety of Patients, staff or Public. | Υ | Quality/Complaints/Audit.      | Y |
|--|---|--------------------------------|---|
| Human Resources/Organisational Development etc     | N | Statutory Duty/Inspections.    | Υ |
| Adverse Publicity/ Reputation.                     | Y | Business Objectives/Projects.  | N |
| Finance Including Claims.                          | Υ | Service Business Interruption. | Υ |
| Environmental Impact                               | N | ·                              |   |

#### Number of people exposed to the Hazard/Risk during the work activity (if applicable)

| Staff / Students / Contractors – list job roles  Registered nurses trained in administering chemotherapy  HCSWs Physios Occupational therapists Intrathecally accredited consultants and registrars  Service / Patient Users Whilst chemotherapy may be administered to patients who are pregnant in extreme circumstances it is not within the remit of this risk assessment to assess risk v benefit for the individual patient. |  |  |  |  |
|--|--|--|--|--|
| <ul> <li>HCSWs</li> <li>Physios</li> <li>Occupational therapists</li> <li>pregnant in extreme circumstances it is not within the remit of this risk assessment to assess risk v benefit for the individual patient.</li> </ul>   |  |  |  |  |
| <ul> <li>Physios</li> <li>Occupational therapists</li> </ul> risk assessment to assess risk v benefit for the individual patient.  |  |  |  |  |
| Occupational therapists  |  |  |  |  |
| '  |  |  |  |  |
| Intrathecally accredited consultants and registrars  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| Frequency of Exposure (if applicable)  |  |  |  |  |
| requericy of Exposure (if applicable)  |  |  |  |  |
| Infrequently Annually Monthly Weekly Daily Y Hourly Constantly   |  |  |  |  |
|  |  |  |  |  |
| Control Measures already taken to reduce risk:   |  |  |  |  |
| 1. Policies and Procedures   |  |  |  |  |
| Management of Parenteral Cytotoxic Chemotherapy  |  |  |  |  |
| Procedure for Handling Cytotoxics During pregnancy (Use for guidance on administration via different routes)      USE New and Expectant Methods at World A Children for Employees  |  |  |  |  |
| HSE New and Expectant Mothers at Work: A Guide for Employers     Broadure for Handling a Spillage  |  |  |  |  |
| <ul> <li>Procedure for Handling a Spillage</li> <li>Procedure for Managing an Extravasation</li> </ul>   |  |  |  |  |
|  |  |  |  |  |
| <ul> <li>Waste Management Policy</li> <li>Health and Safety Policy</li> </ul>  |  |  |  |  |
| Health and Satety Policy   |  |  |  |  |

- 3. Education and Training
  Induction training Haematology and TCT only
  - Chemotherapy Awareness Study day
  - Chemotherapy Administration Workshop
  - Annual assessment

| <ul> <li>Staff are advised to notify their manager of any pregnancy plans and offered removal from said duties</li> <li>Chemotherapy nurse trainers as an expert resource</li> <li>4. COSHH and risk assessments</li> <li>5. Use of personal protective equipment to minimise the risk of exposure</li> <li>Gloves</li> <li>Apron</li> <li>Goggles</li> <li>6. Staff may choose not to administer whilst pregnant</li> <li>7. Pregnant carers whose friend/family member is having ambulatory chemotherapy are to be advised not to handle a chemotherapy spillage</li> </ul> |                       |                                    |   |  |   |
|---|-----------------------|------------------------------------|---|--|---|
| Adequacy of existing control measures:  |                       |                                    |   |  |   |
| No Controls in Place Inadequ  | ate Controls in Place | Adequate but mo<br>required        |   | Optimum Cont<br>No further action r<br>Y |   |
| Current Risk Consequence (score from Table 1)   | 3 X                   | Likelihood<br>(score from Table 2) | 2 | Risk Rating<br>= (see Table 3)           | 6 |
| Risk Grading (see Table 4) Moderate   |                       | High 🗌                             |   | Extreme 🗌                                |   |
| Additional control measures required: None  |                       |                                    |   |  |   |

Likelihood **Target Risk** Consequence 3 Risk Rating 2 (score from Table 1) (score from Table 2) (see Table 3) Rating Χ Risk Grading (see Table 4) High [ Extreme Moderate Y Assessors Name(s) S. Rowland Position(s) Chemotherapy and IV Access CNS Signature(s) **Date of Assessment** 26.09.17 **Review Period** Every 2 years **Dates of Review** 26.09.19 **Progress Report:** Date: Signature:

With the above action implemented the risk rating figure would be reduced to:

### Appendix 1

### Equality & Health Impact Assessment for: Cardiff and Vale University Health Board (UHB) Handling of Cytotoxics by Pregnant Staff Procedure.

| 1. | For service change, provide the title of the Project Outline Document or Business Case and Reference Number | Handling of Cytotoxics by Pregnant Staff Procedure.   |
|----|---|---|
| 2. | Name of Clinical Board / Corporate Directorate and title of lead member of staff, including contact details | Cardiff and Vale University Health Board  The Chief Executive has ultimate responsibility for Health & Safety issues within the UHB; however responsibility for many aspects of the management of these guidelines has been devolved down as follows:  • Executive Lead • Head of Health and Safety • Occupational Health • Pharmacy • Chemotherapy Nurse Specialists (Adult & Paediatrics) • Health and Safety Advisers • Senior Nurses/Clinical Managers  |
| 3. | Objectives of strategy/ policy/ plan/ procedure/ service  | <ul> <li>To ensure the health, safety and welfare of staff (whose roles include handling of cytotoxic drugs) who are pregnant, breastfeeding mothers, or who are trying to conceive.</li> <li>To provide managers with appropriate information and guidance to ensure the risks to staff who may handle cytotoxic agents, or waste, are assessed and necessary risk assessments are completed in order to minimise exposure.</li> <li>To ensure measures taken to reduce risks to as low as reasonably practical.</li> <li>To provide staff with information on the options available.</li> </ul> |

Evidence and background information considered. For example

- population data
- staff and service users data, as applicable
- needs assessment
- engagement and involvement findings
- research
- good practice guidelines
- participant knowledge
- list of stakeholders and how stakeholders have engaged in the development stages
- comments from those involved in the designing and development stages

Population pyramids are available from Public Health Wales
Observatory<sup>1</sup> and the UHB's
'Shaping Our Future Wellbeing'
Strategy provides an overview of health need<sup>2</sup>.

Since the 1980s various historical studies have demonstrated the potential occupational risks to staff when handling cytotoxic drugs (Wick et al. 2003). It is well documented that exposure to these drugs can present a significant risk to staff involved in handling them due to the risk of exposure during the process (Connor et al. 2014; Mead 2014; Graeve et al. 2016). The most common routes of exposure to health care workers include: skin absorption, inhalation and ingestion (HSE 2017).

There are numerous studies documenting the potential health risks to staff exposed to cytotoxic drugs which include adverse reproductive outcomes (Skov et al. 1990; Rekhadevi et al. 2007; Ratner et al. 2010; HSE 2017).

Occupational exposure often occurs when control measures are inadequate (HSE 2017). Current safety standards include rigorous training and the use of personal protective equipment (PPE) in order to protect staff (HSE 2017). This includes aprons, gloves and eye protection. Cardiff and Vale UHB now also provide closed system devices (CSDs) for use in the cytotoxic chemotherapy administration process in accordance with the UK Health and Safety Executive (HSE - 2015) recommendations to use them where reasonably practical.

Contributory background factors include:

- Staff training to ensure all staff are aware of the risks and options.
- Training and increased awareness amongst senior nurses and clinical managers.
- Completion of appropriate risk assessments
- Adequate staffing levels so that risks are minimised and staff are safe and supported.
- An atmosphere of openness to ensure staff are encouraged to discuss any plans/, issues or concerns.

The outcome of these guidelines may be adversely affected by any of the above factors not being in place.

<sup>&</sup>lt;sup>1</sup> http://nww2.nphs.wales.nhs.uk:8080/PubH0bservatoryProjDocs.nsf

<sup>&</sup>lt;sup>2</sup> http://www.cardiffandvaleuhb.wales.nhs.uk/the-challenges-we-face

| 5. | Who will be affected by the strategy/ policy/ plan/ procedure/ service | CV UHB is committed to ensuring that staff work in a safe environment. These guidelines will affect:  • Staff who are pregnant, breast-feeding or trying to conceive.   |
|----|--|---|
|    |  | Implementation of these guidelines will involve the following:  • Health and Safety Department  • Occupational Health Department  • Pharmacy/Sterile Production Services  • Chemotherapy Nurse Specialists (Adult & Paediatrics)  • Senior nurses/Clinical Managers |

## 6. EQIA / How will the strategy, policy, plan, procedure and/or service impact on people?

Questions in this section relate to the impact on people on the basis of their 'protected characteristics'. Specific alignment with the 7 goals of the Well-being of Future Generations (Wales) Act 2015 is included against the relevant sections.

| How will the strategy, policy, plan, procedure and/or service impact on:-  | Potential positive and/or negative impacts  | Recommendations for improvement/ mitigation   | Action taken by Clinical Board / Corporate Directorate. Make reference to where the mitigation is included in the document, as appropriate |
|--|---|---|--|
| <ul> <li>6.1 Age</li> <li>For most purposes, the main categories are: <ul> <li>under 18;</li> <li>between 18 and 65; and</li> <li>over 65</li> </ul> </li> </ul>   | No impact   |   |  |
| 6.2 Persons with a disability as defined in the Equality Act 2010 Those with physical impairments, learning disability, sensory loss or impairment, mental health conditions, long-term medical conditions such as diabetes  | No impact   |   |  |
| 6.3 People of different genders: Consider men, women, people undergoing gender reassignment  NB Gender-reassignment is anyone who proposes to, starts, is going through or who has completed a process to change his or her gender with or without going through any medical procedures. Sometimes referred to as Trans or Transgender | This policy is mainly aimed at women who are pregnant or trying to conceive and therefore has a positive impact for them.  However it is acknowledged that there are concerns of all sexes in relation to conception. This document aims to address all aspects to ensure equality. | To use closed system devices in line with the UK Health and Safety Executive (HSE - 2015) guidance. | Closed system devices used in administration of cytotoxic chemotherapy to further reduce staff exposure.                                   |

| How will the strategy, policy, plan, procedure and/or service impact on:-   | Potential positive and/or negative impacts | Recommendations for improvement/ mitigation  | Action taken by Clinical Board / Corporate Directorate. Make reference to where the mitigation is included in the document, as appropriate |
|---|--|--|--|
| 6.4 People who are married or who have a civil partner.   | No impact                                  |  |  |
| 6.5 Women who are expecting a baby, who are on a break from work after having a baby, or who are breastfeeding. They are protected for 26 weeks after having a baby whether or not they are on maternity leave. | Positive impact.                           | Individual risk assessments must be completed for all pregnant women who handle cytotoxic drugs as part of their role. | Managers must complete risk assessments for all pregnant staff on their unit.  |
| 6.6 People of a different race, nationality, colour, culture or ethnic origin including non-English speakers, gypsies/travellers, migrant workers   | No Impact                                  |  |  |
| 6.7 People with a religion or belief or with no religion or belief. The term 'religion' includes a religious or philosophical belief  | No impact                                  |  |  |

| How will the strategy, policy, plan, procedure and/or service impact on:-   | Potential positive and/or negative impacts   | Recommendations for improvement/ mitigation | Action taken by Clinical Board / Corporate Directorate. Make reference to where the mitigation is included in the document, as appropriate |
|---|--|---|--|
| <ul> <li>6.8 People who are attracted to other people of:</li> <li>the opposite sex (heterosexual);</li> <li>the same sex (lesbian or gay);</li> <li>both sexes (bisexual)</li> </ul>                       | No impact                                    |   |  |
| 6.9 People who communicate using the Welsh language in terms of correspondence, information leaflets, or service plans and design  Well-being Goal – A Wales of vibrant culture and thriving Welsh language | May be made available in Welsh if requested. |   |  |
| 6.10 People according to their income related group: Consider people on low income, economically inactive, unemployed/workless, people who are unable to work due to ill-health                             | No impact                                    |   |  |
| 6.11 People according to where they live: Consider people living in areas known to exhibit poor economic and/or health indicators, people unable to access services and facilities                          | No impact                                    |   |  |

| How will the strategy, policy, plan, procedure and/or service impact on:-   | Potential positive and/or negative impacts | Recommendations for improvement/ mitigation | Action taken by Clinical Board / Corporate Directorate. Make reference to where the mitigation is included in the document, as appropriate |
|---|--|---|--|
| 6.12 Consider any other groups and risk factors relevant to this strategy, policy, plan, procedure and/or service | None                                       |   |  |

# 7. HIA / How will the strategy, policy, plan, procedure and/or service impact on the health and well-being of our population and help address inequalities in health?

Questions in this section relate to the impact on the overall health of individual people and on the impact on our population. Specific alignment with the 7 goals of the Wellbeing of Future Generations (Wales) Act 2015 is included against the relevant sections.

| How will the strategy, policy, plan, procedure and/or service impact on:-   | Potential positive<br>and/or negative<br>impacts and any<br>particular groups<br>affected | Recommendations for improvement/ mitigation | Action taken by Clinical Board / Corporate Directorate Make reference to where the mitigation is included in the document, as appropriate |
|---|---|---|---|
| 7.1 People being able to access the service offered: Consider access for those living in areas of deprivation and/or those experiencing health inequalities | No impact   |   |   |
| Well-being Goal - A more equal Wales  |   |   |   |
| 7.2 People being able to improve /maintain healthy lifestyles: Consider the impact on healthy lifestyles, including   | No impact   |   |   |

| How will the strategy, policy, plan, procedure and/or service impact on:-  | Potential positive<br>and/or negative<br>impacts and any<br>particular groups<br>affected | Recommendations for improvement/ mitigation | Action taken by Clinical Board / Corporate Directorate Make reference to where the mitigation is included in the document, as appropriate |
|--|---|---|---|
| healthy eating, being active, no smoking /smoking cessation, reducing the harm caused by alcohol and /or non-prescribed drugs plus access to services that support disease prevention (eg immunisation and vaccination, falls prevention). Also consider impact on access to supportive services including smoking cessation services, weight management services etc  Well-being Goal – A healthier Wales |   |   |   |
| 7.3 People in terms of their income and employment status: Consider the impact on the availability and accessibility of work, paid/unpaid employment, wage levels, job security, working conditions  Well-being Goal – A prosperous Wales  | No impact   |   |   |
| 7.4 People in terms of their use of the physical environment: Consider the impact on the availability and accessibility of transport, healthy food, leisure activities, green spaces; of the design of the built environment on the physical and mental health   | No impact   |   |   |

| How will the strategy, policy, plan, procedure and/or service impact on:-  | Potential positive<br>and/or negative<br>impacts and any<br>particular groups<br>affected | Recommendations for improvement/ mitigation | Action taken by Clinical Board / Corporate Directorate Make reference to where the mitigation is included in the document, as appropriate |
|--|---|---|---|
| of patients, staff and visitors; on air quality, exposure to pollutants; safety of neighbourhoods, exposure to crime; road safety and preventing injuries/accidents; quality and safety of play areas and open spaces  |   |   |   |
| Well-being Goal – A resilient Wales  |   |   |   |
| 7.5 People in terms of social and community influences on their health: Consider the impact on family organisation and roles; social support and social networks; neighbourliness and sense of belonging; social isolation; peer pressure; community identity; cultural and spiritual ethos  Well-being Goal – A Wales of cohesive communities | No impact   |   |   |
| 7.6 People in terms of macro-economic, environmental and sustainability factors: Consider the impact of government policies; gross domestic product; economic development; biological diversity; climate   | No impact   |   |   |
| Well-being Goal – A  |   |   |   |

| How will the strategy, policy, plan, procedure and/or service impact on:- | Potential positive<br>and/or negative<br>impacts and any<br>particular groups<br>affected | Recommendations for improvement/ mitigation | Action taken by Clinical Board / Corporate Directorate Make reference to where the mitigation is included in the document, as appropriate |
|---|---|---|---|
| globally responsible Wales  |   |   |   |

Please answer question 8.1 following the completion of the EHIA and complete the action plan

8.1 Please summarise the potential positive and/or negative impacts of the strategy, policy, plan or service

The Equality and Health Impact Assessment undertaken identifies understandable gender bias, due to the fact that the guidelines are predominantly aimed at pregnant or breast feeding women. However it is acknowledged that there are concerns of both sexes have been addressed in relation to conception. Thus ensuring equality.

### **Action Plan for Mitigation / Improvement and Implementation**

|   | Action                | Lead | Timescale | Action taken by Clinical Board / Corporate Directorate |
|---|-----------------------|------|-----------|--|
| 8.2 What are the key actions identified as a result of completing the EHIA?                             | No changes identified |      |           |  |
| 8.3 Is a more comprehensive<br>Equalities Impact<br>Assessment or Health Impact<br>Assessment required? | No                    |      |           |  |

|   | Action   | Lead | Timescale | Action taken by Clinical Board / |
|---|--|------|-----------|----------------------------------|
| 8.4 What are the next steps?  Some suggestions:-  Decide whether the strategy, policy, plan, procedure and/or service proposal:  continues unchanged as there are no significant negative impacts  adjusts to account for the negative impacts  continues despite potential for adverse impact or missed opportunities to advance equality (set out the justifications for doing so)  stops.  Have your strategy, policy, plan, procedure and/or service proposal approved  Publish your report of this impact assessment  Monitor and review | Procedure continues unchanged as there are no significant negative impacts |      |           | Corporate Directorate            |