

Areas where applicable	Maternity inpatient services – according to local guidelines		
Authorised Prescribers	Prescribing is restricted to:  • A specialist who is either a Fellow of the Royal Australian and New Zealand College of Obstetricians and Gynaecologists or a Fellow of the Royal College of Obstetricians and Gynaecologists. The prescription must be endorsed with the individual authority reference number issued by the Pharmaceutical services Unit.  OR  • A registrar in obstetrics who has undertaken training in the administration and prescribing of dinoprostone and received written permission from the Director of Obstetrics to prescribe dinoprostone. This will be in accordance with a written protocol. The Director of Obstetrics in each facility will be responsible for providing pharmacy with a list of named approved registrars		
Indication for use	in February and August of each year.  Cervical ripening at term as part of an induction of labour protocol. Individual cases should be discussed with a senior obstetrician and in conjunction with local guidelines (see reference list).		
Clinical condition	Each case must be assessed on an individual basis with consultation with an experienced/ suitably qualified Obstetrician. Dinoprostone is used in conjunction with a calculated modified Bishop's score. Mechanical methods may also be used as required.  Local guidelines provide specifics in regards to inclusion criteria and clinical investigations prior to and during the administration.		
Contra-indications	<ul> <li>Some examples are below- this is not an exhaustive list:</li> <li>Known hypersensitivity to dinoprostone.</li> <li>Prior uterine surgery</li> <li>Fetal distress</li> <li>Vaginal bleeding</li> <li>A comprehensive list can be located in local guidelines.</li> </ul>		
Precautions	<ul> <li>Asthma ,COPD</li> <li>Epilepsy</li> <li>Cardiovascular disease</li> <li>Raised intraocular pressure</li> <li>Renal or Hepatic impairment</li> </ul>		
Place in Therapy	First line pharmacological therapy for cervical ripening as part of an induction of labour protocol		

Version: 3 Trim: T17/7009 Date: October 2021 Page 1 of 4



Dosage	Dinoprostone (Prostin®) gel     Initial dose (recommended):			
	Nulliparous woman - 2 mg PV			
	Multiparous woman - 1 mg or 2 mg PV			
	(as directed by an experienced obstetrician)			
	Repeat dose if labour is not established after 6 hours			
	Maximum dose is 3mg in a 12 hour period			
	Dinoprostone (Cervidil®) pessary			
	Single dose of dinoprostone pessary (Cervidil®) 10 mg PV (releases approximately 0.3 mg dinoprostone per hour over 12 hours)			
Downstian of the ways	If contractions do not commence, reassess the cervical (Modified Bishop's) score			
Duration of therapy	Dinoprostone (Prostin®) gel - 6 hours after insertion			
	Dinoprostone (Cervidil®) pessary- 12 hours after insertion			
Important Drug				
Interactions	Concurrent use with other oxytocic agents is not recommended			
	Dinoprostone (Prostin®) gel			
	Remove gel from refrigeration and stand at room temperature for at			
	least 30 minutes prior to use			
	Use minimal water soluble lubricants only			
	Insert dose into the posterior fornix of the vagina avoiding the cervix			
	<ul> <li>Advise the woman to remain in bed for up to one hour to facilitate absorption</li> </ul>			
Administration	· ·			
instructions	Dinoprostone (Cervidil®) pessary			
	<ul> <li>Remove from freezer immediately prior to use. Warming is not required</li> </ul>			
	Use minimal water soluble lubricants only			
	<ul> <li>Insert into the posterior fornix of the vagina in transverse position</li> </ul>			
	Ensure sufficient tape outside vagina to allow removal			
	Advise the woman to remain in bed for up to one hour to facilitate absorption			
	absorption			

Version: 3 Trim: T17/7009 Date: October 2021 Page 2 of 4



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Monitoring requirements	<ul> <li>Fetal welfare surveillance is required prior to, during and after the administration of dinoprostone. Refer to local guidelines.</li> <li>Maternal surveillance is required prior to, during and after the administration of dinoprostone. Refer to local guidelines.</li> </ul>		
Safety	The risk of uterine hyperstimulation with fetal heart changes is increase (4.8% vs 1%) and the rate of caesarean section reduced by around 10% (13.5% vs 14.8%).		
	Adverse drug reactions include:		
	Uterine hyperstimulation		
	Fetal distress		
	Fever     Newsca and varieting		
	<ul><li>Nausea and vomiting</li><li>Diarrhoea</li></ul>		
	Abdominal pain		
	Increased risk of postpartum disseminated intravascular coagulation (DIC)		
Effectiveness	Onset of painful uterine contractions with cervical dilatation		
	Hypertonic uterine activity:		
Management of	Remove dinoprostone pessary and consider removal of any		
complications	<ul><li>dinoprostone gel</li><li>Notify registrar/ consultant</li></ul>		
	Administer tocolysis as indicated		
	NSW Ministry of Health Guideline GL2014 015 - Maternity - Management of Pregnancy		
	Beyond 41 Weeks Gestation  2. Australian Medicines Handbook –Dinoprostone, last updated July 2021		
	3. MIMS Online. Prostin E2 Vaginal Gel [Pfizer]. 2020 [cited 02/09/21].		
Basis of	<ol> <li>MIMS Online. Cervidil Pessary [Ferring]. 2018 [cited 02/09/2021].</li> <li>Kelly AJ, Malik S, Smith L, Kavanagh J, Thomas J. Vaginal prostaglandin (PGE2 and</li> </ol>		
Protocol/Guideline:	PGF2a) for induction of labour at term. Cochrane Database of Systematic Reviews.		
	2014; Issue 6. Art. No.: CD003101. DOI:10.1002/14651858.CD003101.pub3 6. McDonnell R. Induction of labour <i>Obstet Gynecol</i> 2011;13[3]: 62-64		
	7. SGH-TSH WCH CLIN068 Clinical Business Rule: Induction and Augmentation of Labour		
	8. RHW Local Operating Procedure: Prostaglandin Administration for Cervical Preparation 9. Use of prostaglandins for induction of Labour (endorsed by RANZCOG :July 2006,		
	Current March 2019, review due March 2022)		
	Women's and Babies Clinical Governance Committee		
Groups consulted in development of this guideline	Dr Sarah Clements		
	Midwifery Unit Managers		
	SESLHD Women's and Children's Stream		
	RHW Pharmacy		

Version: 3 Trim: T17/7009 Date: October 2021 Page 3 of 4



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GOVERNANCE				
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Chairperson, QUM Committee		Dr John Shephard		
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Version: 3 Trim: T17/7009 Date: October 2021 Page 4 of 4