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Practice Guideline:	
Medical and Expectant Management of Ectopic Pregnancy and Pregnancy of Unknown Location	
<b>Approval Date:</b> October 2023	Pages: 1 of 9
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The following is a suggested guideline and does not replace ongoing clinical assessment and professional judgment.

### PURPOSE AND INTENT

**GUIDELINE** 

To guide the effective and safe use of Methotrexate as a pharmaceutical agent for the medical management of an ectopic pregnancy and pregnancy of unknown location.

For the purpose of this document, ectopic pregnancy and pregnancy of unknown location will be referred to as ectopic pregnancy.

### 1. BACKGROUND

Ectopic pregnancy is a significant cause of morbidity and mortality in the first trimester of pregnancy. Currently, a high index of suspicion, serial hormone assays, and transvaginal ultrasonography facilitate the diagnosis and treatment of ectopic pregnancy before rupture occurs. Early nonsurgical diagnosis and timely treatment have resulted in a dramatic decline in mortality due to ectopic pregnancy. (15). Evidence indicates Methotrexate is an effective and safe pharmaceutical agent for the medical management of an ectopic pregnancy. Methotrexate is a folic acid antagonist preventing DNA replication. It inhibits the rapidly dividing trophoblast cells of an ectopic pregnancy. (2)

### 2. **DEFINITIONS**

**Definite Ectopic Pregnancy**: extrauterine gestational sac with yolk sac and/or embryo (with or without cardiac activity)

Probable Ectopic Pregnancy: inhomogeneous adnexal mass or extrauterine saclike structure

**Pregnancy of Unknown Location:** no signs of either ectopic pregnancy or intrauterine pregnancy

**Persistent Pregnancy of Unknown Location**: the serum hCG levels fail to decline, there is no evidence of trophoblastic disease and the location of pregnancy cannot be identified using transvaginal ultrasound or laparoscopy

Probable intrauterine pregnancy: intrauterine echogenic sac-like structure

**Definite intrauterine pregnancy:** intrauterine gestational sac with yolk sac and/or embryo (with or without cardiac activity). Barnhart. Nomenclature for pregnancy of unknown location. Fertil Steril 2011.

### 3. GUIDELINES

### 3.1 **Indications:**

- 3.1.1 A good candidate for methotrexate has the following characteristics:
  - o hemodynamic stability
  - o no active bleeding
  - o low serum  $\beta$ -hCG, ideally less than 1500 international Units/Litre but can be up to 5000 international Units/Litre
  - o no fetal cardiac activity seen on ultrasound scan
  - o certainty that there is no intrauterine pregnancy
  - o willingness to attend for follow-up

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- o no known sensitivity to methotrexate
- o no significant pain
- o normal liver and renal function test
- o an unruptured ectopic pregnancy with a mass smaller than 35 mm with no visible heartbeat RCOG Green-top Guideline No. 21 e34 of e55 a 2016 Royal College of Obstetricians and Gynaecologists
- 3.1.2 Non-tubal ectopic: cervical, cornual, ovarian, and abdominal
- 3.1.3 Persistent ectopic pregnancy following salpingostomy
- 3.1.4 Failed expectant management of ectopic pregnancy or pregnancy of unknown location
- 3.1.5 Pregnancy of unknown location on ultrasound where patient requests termination

### 3.2 Contraindications to Methotrexate Therapy

	Absolute contraindications		Relative contraindications
0	Intrauterine pregnancy in a wanted pregnancy	0	Embryonic cardiac activity detected by
0	History of Immunodeficiency Syndrome or		transvaginal ultrasonography
	Disorders	0	High initial β-hCG concentration (>5,000 IU/mL)
0	Moderate to severe anemia, leukopenia, or	0	Ectopic pregnancy greater than 40 mm in size as
	thrombocytopenia		imaged by transvaginal ultrasonography
0	Sensitivity to Methotrexate	0	Refusal to accept blood transfusion
0	Active pulmonary disease	0	Inability to participate in follow-up
0	Active peptic ulcer disease		
0	Clinically important hepatic dysfunction		
0	Clinically important renal dysfunction		
0	Breastfeeding		
0	Ruptured ectopic pregnancy		
0	Hemodynamically unstable patient		

Adapted Practice Committee. Medical treatment of ectopic pregnancy. Fertil Steril 2013.

### 3.3 Treatment and drug side effects associated with Methotrexate

- 3.3.1 Treatment side effects:
  - o Increase in abdominal girth
  - o Increase in β-hCG during initial therapy
  - o Vaginal bleeding or spotting
  - Abdominal pain
- 3.3.2 Drug side effects
  - o Gastric distress, nausea, and vomiting
  - o Stomatitis
  - Dizziness
  - Severe neutropenia (rare)
  - o Reversible alopecia (rare)
  - o Pneumonitis (rare)

Practice Committee. Medical treatment of ectopic pregnancy. Fertil Steril 2013.

Rupture is possible even several weeks after Methotrexate treatment.

Expect some abdominal pain for two to four days after Methotrexate treatment.



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### If severe pain is experienced:

- o clinically reassess
- o complete serial hemoglobins
- o repeat ultrasound
- o consider surgery

#### 3.4 Pre-Treatment Lab Results

- 3.4.1 CBC
- 3.4.2 Liver enzymes (AST, ALT, GGT, LDH, Alkaline phosphate), and creatinine
- 3.4.3 Quantitative β-hCG (day 1)
- 3.4.4 RH status
  - Unknown determine
  - RH negative treat Rho (D) Immune Globulin (WinRho SDF<sup>TM</sup>)
    Best Blood Manitoba GUIDELINES FOR PERINATAL TESTING and ADMINISTRATION OF WINRHO® SDF (Rh
    IMMUNE GLOBULIN)

### 3.5 Methotrexate administration

- 3.5.1 Methotrexate is a cytotoxic medication. Follow WRHA policy <u>110.160.010 Safe Handling of Hazardous</u> <u>Medication (Cytotoxic and Non-Cytotoxic)</u> during preparation, administration, and disposal of this medication.
- 3.5.2 50 mg/m² IV or IM. Administration of this drug is height and weight dependent. Please refer to dose banding table. Dosing is rounded to the nearest 5 mg. Dose banding calculation is incorporated into EPR (SBH) and on reverse of order sheet (HSC) (See Appendix A).
- 3.5.3 Discontinue any medications containing folic acid (folate) including prenatal vitamins.
- 3.5.4 Refer to Methotrexate Drug Monograph in the WRHA/Shared Health Adult Parenteral Drug Monograph for information regarding this medication.
- 3.5.5 Methotrexate is only available from either the Health Sciences Centre or St. Boniface Hospital Pharmacies; all other WRHA sites will need to transfer patients to HSC or SBH.

# 3.6 Treatment Protocol - Ectopic Pregnancy SINGLE DOSE PROTOCOL

- Day 1 β-hCG, Methotrexate as above
- Day 4 Repeat β-hCG
- Day 7 Repeat β-hCG. Reassess treatment plan. If there is a 15% decline, continue weekly surveillance. Consider repeating Methotrexate if less than a 15% decline from day 4 to day 7. If repeat Methotrexate treatment is implemented, repeat bloodwork and restart the regimen following the chart on form 'DISCHARGE INFORMATION: After Methotrexate Treatment for Ectopic Pregnancy'. (NS00832-HSC, 7102-4300-4-SBH) **Note:** There is no benefit in giving a third dose.

Day 14 Repeat β-hCG, CBC

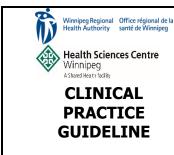
Weekly quantitative β-hCG until less than 10 International Units/Litre

### TWO-DOSE PROTOCOL

CONSIDER USE IF INITIAL BHCG >3600

- Day 1  $\beta$ -hCG, Methotrexate as above
- Day 4  $2^{ND}$  DOSE OF Methotrexate,  $\beta$ -hCG
- Day 7 repeat β-hCG, follow protocol as above for SINGLE DOSE
- Day 14 repeat β-hCG, CBC

NOTE: Resolution time is 14 to 90 days.



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Rupture is possible even several weeks after Methotrexate treatment Expect some abdominal pain for two to four days after Methotrexate treatment If severe pain is experienced, then clinically reassess and do:

- Serial hemoglobins
- Repeat ultrasound and consider surgery

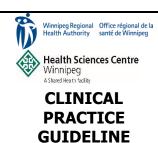
Success of single dose Methotrexate for ectopic pregnancy according to β-hCG concentration

β-hCG concentration (IU/L)	Number of women	Number of women failing
	successfully treated (percent)	treatment (percent)
<1000	133 (99)	2(1)
1000 to 1999	51 (94)	3 (6)
2000 to 4999	106 (96)	4 (4)
5000 to 9999	42 (86)	7 (14)
10,000 to 150,000	18 (82)	4 (18)

Adapted from: Menon, S, et al. Establishing a human chorionic gonadotropin cutoff to guide Methotrexate treatment of ectopic pregnancy: a systematic review. Fertil Steril 2007; 87:481.Graphic 74836 Version 2.0

# 3.7 Patient education and follow-up information

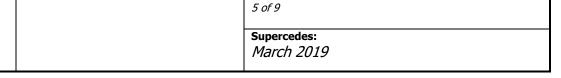
Utilize the WRHA, Women's Health Program DISCHARGE INFORMATION: After Methotrexate Treatment for Ectopic Pregnancy HSC NS00832, SBH 7102-4300-4

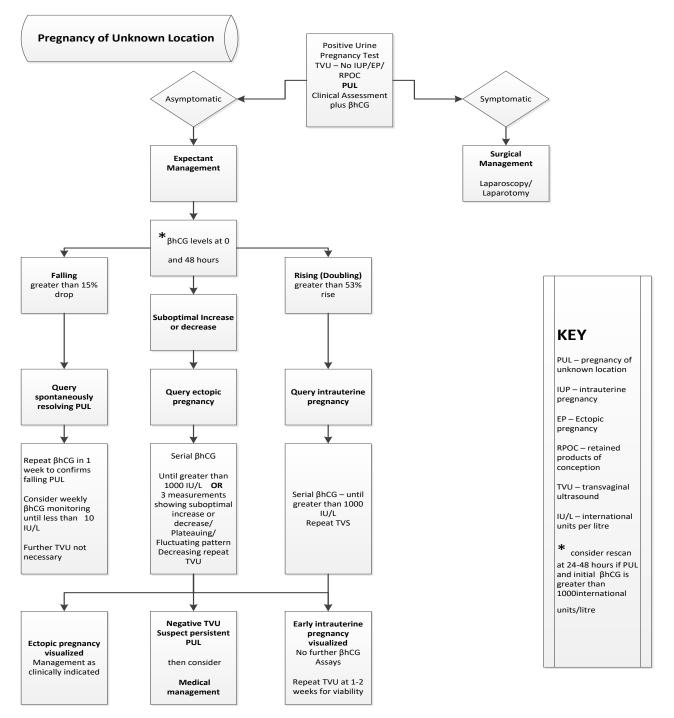


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Pregnancy of Unknown location: An evidenced based approach to management. The Obstetrician & Gynecologist, 10.15676/toag. 10.4.224.27438. www.rcog.org.uk/togonline

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### 6. PRIMARY AUTHOR (S)

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# Appendix A

PREPRINTED ORDERS

Women's Health Program Methotrexate for Treatment of Ectopic Pregnancy

DATE	
PATIENT	
DOB	
HSC NO.	

These orders are to be used as a guideline and do not re					
Patient allergy and contraindications m ■ Standard orders. If not in agreement with an orde					
Drug Allergies ►				TRANS At	DER CRIBED ND /ATED
R MEDICATION TO BE INITIATED OR		4	PAGE 1 OF 1	O	TEST
DATE TIME					
Height cm Weight kg  Methotrexate mg IM x 1 dose (dose 50 mg/m² rounded to the nearest 5 mg as defi	ned in the table on	the reverse page			
If the patient height and weight cannot be found in the calculate the Body Surface Area (BSA)					
BSA =					
PHYSICIAN'S SIGNATURE MD	RANSCRIBED:	REVIEWER:			
PRINTED MAME MD	LEAVED DATE:	TIME:	NUTIAL C.		
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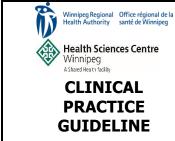
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Height (cm)         60 mg         65 mg           Min         Max         Fino           126         127.9         38-44         45-51           128         129.9         37-43         44-50           130         131.9         37-42         43-49           132         133.9         37-42         43-49           134         135.9         36-41         42-48           138         139.9         35-40         41-47           140         141.9         34-40         41-47           140         141.9         34-40         41-46           141         145.9         33-38         39-45           148         149.9         32-37         38-41           150         151.9         32-37         38-41           150         153.9         31-36         37-42           150         153.9         31-36         37-42           150         153.9         31-36         35-541           160         161.9         30.5-35.9         36-41           160         161.9         30.5-35.9         36-40.9           160         167.9         32-33         34-39.9	ng         70 mg         75 mg         80 mg         85 mg         90 mg         95 mg         100 mg         105 mg         110 mg         115 mg         120 mg	75 mg	80 ma	85 mg	90 mg	95 mg	100 mg	105 mg	110 mg	115 mg	120 mg	125 mg	130 mg
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	38-43.9	44-50	51-56	57-63	64-71	72-79	80-87	96-88	97-105	106-115	116-125	126-135	136-146
_	38-43	44-49	20-56	57-63	64-70	71-78	98-62	87-95	96-104	105-113	114-123	124-134	135-144
	37.5-42.9	43-48.9	49-55	29-95	63-69	70-77	78-85	86-94	95-103	104-112	113-122	123-132	133-143
		42.5-48	49-54.9	55-61	69-29	92-02	77-84	85-93	94-102	103-111	112-120	121-131	132-141
180 181.9		42-47.9	48-54	55-61	62-68	69-75	76-83	84-92	93-100	101-110	111-119	120-129	130-139
182 183.9		42-47	48-53	24-60	61-67	68-75	76-82	83-91	92-99	100-108	109-118	119-128	129-138
184 185.9		42-46.9	47-53	54-59	99-09	67-74	75-82	83-90	91-98	99-107	108-117	118-126	127-137
186 187.9	-		46.5-52	53-59	99-09	67-73	74-81	82-89	26-06	98-106	107-115	116-125	126-135
188 189.9			46-52	53-58	29-62	66-72	73-80	81-88	96-68	97-105	106-114	115-124	125-134
190 191.9	-		45.5-51	52-57.9	58-64	65-71	72-79	28-08	88-95	96-104	105-113	114-122	123-132
192 193.9			45-50.9	51-57	58-64	65-71	72-78	79-86	87-94	95-103	104-112	113-121	122-131

Adapted with permission from Department of Pharmacy, Sunnybrook Health Sciences Center, Toronto 2015



Practice Guideline:	
Medical and Expectar of Unknown Location	Management of Ectopic Pregnancy and Pregnancy
Approval Date: October 2023	Pages:           9 of 9
	Supercedes: March 2019

# Appendix B

	Winnipeg Regional Health Authority	Office régional de la santé de Winnipeg		Health Sciences Centre Winnipeg A Shared Hea th facility
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## Women's Health Program

Date:	Number of pages faxed:
Fax to: Dr	Fax Number:
Fax from:	
<ul> <li>□ Women's Health Ambulatory Care Health Sciences Centre WR035 – 735 Notre Dame Avenue FAX number: 204-787-2876</li> <li>□ Antepartum Gynecology Inpatient Unit St Boniface Hospital 409 Tache Ave. FAX number: 204-237-2294</li> </ul>	<ul> <li>□ Antepartum Gynecology Inpatient Unit Health Sciences Centre WRS5 – 735 Notre Dame Avenue FAX number: 204-787-2875</li> <li>□ St. Boniface Emergency Department St Boniface Hospital 409 Tache Ave. FAX number: 204-237-2268</li> </ul>
Dear Dr	
	ave been identified as the responsible physician ordering methotrexate for the patient range for follow-up including scheduling and reviewing β-hCG tests, on your patient

identified on the attached form. Please arrange for follow-up including scheduling and reviewing β-hCG tests, on your patien

Please see the attached form: Women's Health Program DISCHARGE INFORMATION: After Methotrexate Treatment for Ectopic Pregnancy.