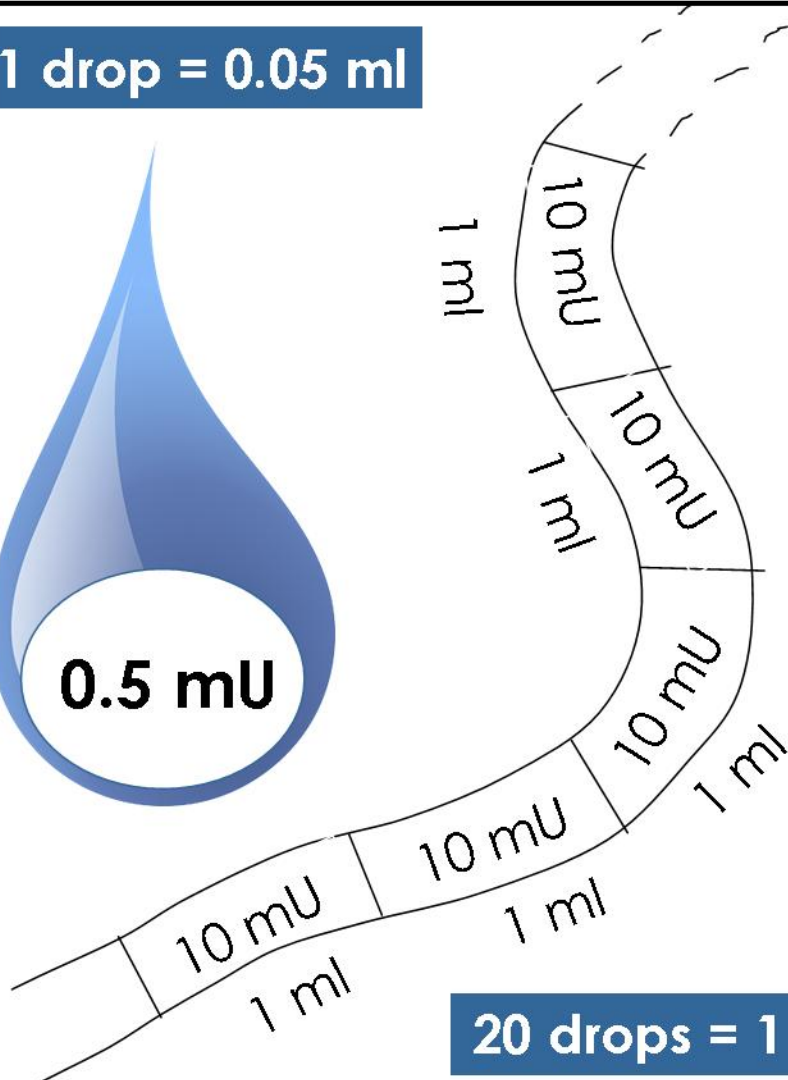


# Synthetic Oxytocin 5 IU in 500 ml

**1 drop = 0.05 ml**



**20 drops = 1 ml**

Licensed dilution for IV drip infusion,  
volumetric pump and syringe driver

[www.oxytocinmeasures.com](http://www.oxytocinmeasures.com)



Novartis (1977 – 2019) gave Syntocinon<sup>®</sup> to Mylan Ltd.

<https://www.medicines.org.uk/emc/product/9457/smhc>

[Other UK manufacturers call their product 'Oxytocin'.]



5 IU Synthetic Oxytocin in 500 ml diluent for drip infusion (10 mU / ml)												
	0.5 mU / drop				Total mU / no of drops				Volume (0.05 ml / drop)			
<b>A</b>	1	2	3	4	0.5	1	1.5	2	0.05	0.1	0.15	0.2
	5	6	7	8	2.5	3	3.5	4	0.25	0.3	0.35	0.4
	9	10	11	12	4.5	5	5.5	6	0.45	0.5	0.55	0.6
	13	14	15	16	6.5	7	7.5	8	0.65	0.7	0.75	0.8
	17	18	19	20	8.5	9	9.5	10	0.85	0.9	0.95	1.0
<b>B</b>	21	22	23	24	10.5	11	11.5	12	1.05	1.1	1.15	1.2
	25	26	27	28	12.5	13	13.5	14	1.25	1.3	1.35	1.4
	29	30	31	32	14.5	15	15.5	16	1.45	1.5	1.55	1.6
	33	34	35	36	16.5	17	17.5	18	1.65	1.7	1.75	1.8
	37	38	39	40	18.5	19	19.5	20	1.85	1.9	1.95	2.0
Licensed dilution SO in mU, in drops / minute, mU/drop and millilitres (ml). <b>A</b> 1 drop - 20 drops / minute <b>B</b> 21 drops - 40 drops / minute												
5 IU SO in 500 ml for Drip Infusion, Volumetric Pump or Syringe Driver Licensed dosage range mU / ml <b>20 minute settings - dose / minute &amp; volume</b>												
	mU / minute				mU / 20 minutes				ml / 20 minutes			
<b>A</b>	0.5	1	1.5	2	10	20	30	40	1	2	3	4
	2.5	3	3.5	4	50	60	70	80	5	6	7	8
	4.5	5	5.5	6	90	100	110	120	9	10	11	12
	6.5	7	7.5	8	130	140	150	160	13	14	15	16
	8.5	9	9.5	10	170	180	190	200	17	18	19	20
<b>B</b>	10.5	11	11.5	12	210	220	230	240	21	22	23	24
	12.5	13	13.5	14	250	260	270	280	25	26	27	28
	14.5	15	15.5	16	290	300	310	320	29	30	31	32
	16.5	17	17.5	18	330	340	350	360	33	34	35	36
	18.5	19	19.5	20	370	380	390	400	37	38	39	40
Volumes containing the recommended dosage range for 1 and 20 minutes. <b>A</b> Start rates for augmentation. <u>Maximum start for induction = 4 mU / minute</u> <b>10 mU / minute = average rate, B</b> upper range to maximum 20 mU / minute												

# Figure B

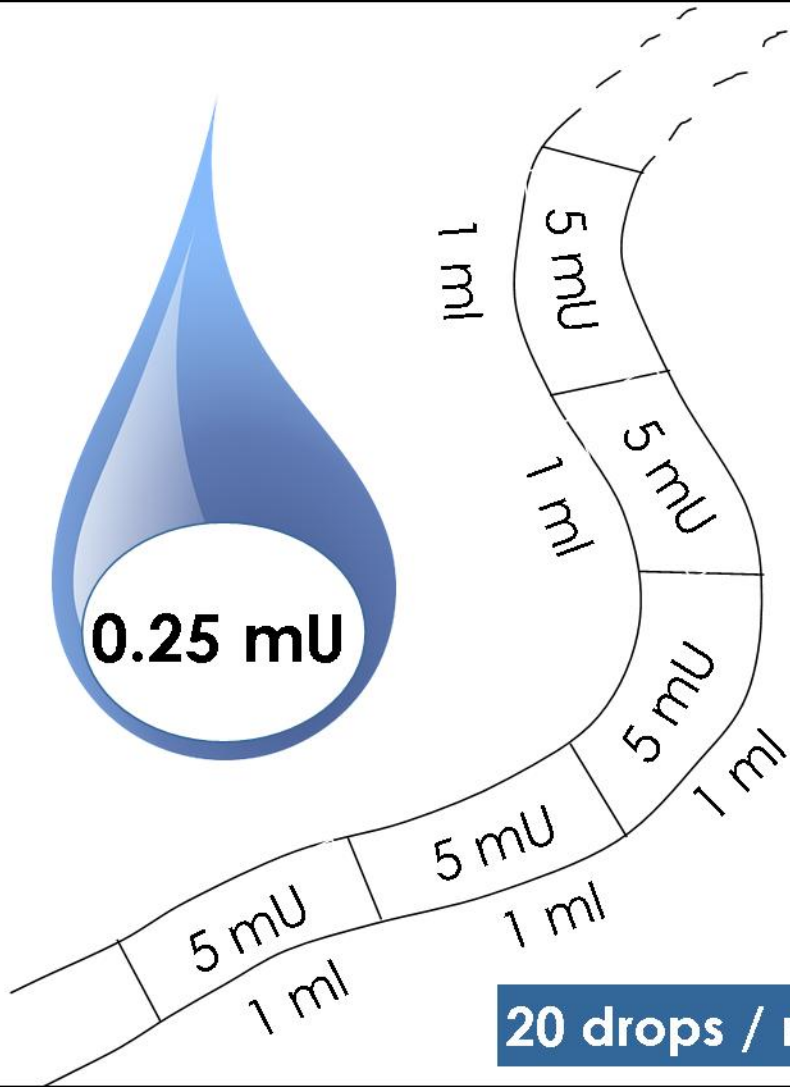


RCOG regime (2001 & 2008) highlighted in blue

Synthetic Oxytocin for use in Induction of Labour							
<b>5 IU synthetic oxytocin in 500 ml diluent</b>							
<b>Full licensed dosage range: mU / minute</b>							
0.5	1	1.5	2	2.5	3	3.5	4
4.5	5	5.5	6	6.5	7	7.5	8
8.5	9	9.5	10	10.5	11	11.5	12
12.5	13	13.5	14	14.5	15	15.5	16
16.5	17	17.5	18	18.5	19	19.5	20
Maximum licensed rate = 20 mU / min							24
							28
							32
<b>RCOG regime</b> showing rates <u>omitted</u> by it and <u>unlicensed</u> increments 4 mU at a time. <u>Licensed increments = &lt; 2 mU</u>							

[www.oxytocinmeasures.com](http://www.oxytocinmeasures.com)

# Synthetic Oxytocin 2.5 IU in 500 ml



Half-strength dilution for IV drip infusion,  
volumetric pump and syringe driver

**2.5 IU Synthetic Oxytocin in 500 ml for drip infusion (5 mU / ml)**

0.25 mU / drop				Total mU / no of drops				Volume (0.05 ml / drop)			
1	2	3	4	0.25	0.5	0.75	1	0.05	0.1	0.15	0.2
<b>5</b>	6	7	8	<b>1.25</b>	1.5	1.75	2	<b>0.25</b>	0.3	0.35	0.4
9	<b>10</b>	11	12	2.25	<b>2.5</b>	2.75	3	0.45	<b>0.5</b>	0.55	0.6
13	14	<b>15</b>	16	3.25	3.5	<b>3.75</b>	4	0.65	0.7	<b>0.75</b>	0.8
17	18	19	<b>20</b>	4.25	4.5	4.75	<b>5</b>	0.85	0.9	0.95	<b>1.0</b>
21	22	23	24	5.25	5.5	5.75	6	1.05	1.1	1.15	1.2
<b>25</b>	26	27	28	<b>6.25</b>	6.5	6.75	7	<b>1.25</b>	1.3	1.35	1.4
29	<b>30</b>	31	32	7.25	<b>7.5</b>	7.75	8	1.45	<b>1.5</b>	1.55	1.6
33	34	<b>35</b>	36	8.25	8.5	<b>8.75</b>	9	1.65	1.7	<b>1.75</b>	1.8
37	38	39	<b>40</b>	9.25	9.5	9.75	<b>10</b>	1.85	1.9	1.95	<b>2.0</b>

Half-strength standard dilution SO in drops / mU / ml / minute.  
 If IVI >10 mU / minute, when 500 ml ends, go to 5 IU in 500 ml.

**2.5 IU Synthetic Oxytocin in 500 ml for volumetric pump (5 mU / ml)**

mU / minute				mU / 20 minutes				ml / 20 minutes			
0.25	0.5	0.75	1	5	10	15	20	1	2	3	4
<b>1.25</b>	1.5	1.75	2	<b>25</b>	30	35	40	<b>5</b>	6	7	8
2.25	<b>2.5</b>	2.75	3	45	<b>50</b>	55	60	9	<b>10</b>	11	12
3.25	3.5	<b>3.75</b>	4	65	70	<b>75</b>	80	13	14	<b>15</b>	16
4.25	4.5	4.75	<b>5</b>	85	90	95	<b>100</b>	17	18	19	<b>20</b>
5.25	5.5	5.75	6	105	110	115	120	21	22	23	24
<b>6.25</b>	6.5	6.75	7	<b>125</b>	130	135	140	<b>25</b>	26	27	28
7.25	<b>7.5</b>	7.75	8	145	<b>150</b>	155	160	29	<b>30</b>	31	32
8.25	8.5	<b>8.75</b>	9	165	170	<b>175</b>	180	33	34	<b>35</b>	36
9.25	9.5	9.75	<b>10</b>	185	190	195	<b>200</b>	37	38	39	<b>40</b>

Half-strength standard dilution mU / ml / 20 minutes.  
 If IVI >10 mU / minute, when 500 ml ends, go to 5 IU in 500 ml



# Synthetic Oxytocin 2.5 IU in 50 ml

**2.5 mU / 0.05 ml  
= unlicensed  
dilution  
NOT for drip  
infusion**

50 mU	50 mU
1 ml	1 ml

## **SYRINGE DRIVER**

50 mU	50 mU
1 ml	1 ml

**0.5 mU / 0.01 ml**

At this dilution a syringe driver is essential to control speed of infusion



## 2.5 IU synthetic oxytocin in 50 ml for Syringe Driver

2.5 IU = 2500 mU in 50 ml  2500 / 50 = 50 mU / ml =  0.5 mU / 0.01 ml synthetic oxytocin	mU / minute				Volume ml / minute						
	0.5	1.0	1.5	2.0	0.01	0.02	0.03	0.04			
	<b>2.5</b>	3.0	3.5	4.0	<b>0.05</b>	0.06	0.07	0.08			
	4.5	<b>5.0</b>	5.5	6.0	0.09	<b>0.1</b>	0.11	0.12			
	6.5	7.0	<b>7.5</b>	8.0	0.13	0.14	<b>0.15</b>	0.16			
	8.5	9.0	9.5	<b>10.0</b>	0.17	0.18	0.19	<b>0.2</b>			
	10.5	11.0	11.5	12.0	0.21	0.22	0.23	0.24			
	<b>12.5</b>	13.0	13.5	14.0	<b>0.25</b>	0.26	0.27	0.28			
	14.5	<b>15.0</b>	15.5	16.0	0.29	<b>0.3</b>	0.31	0.32			
	16.5	17.0	<b>17.5</b>	18.0	0.33	0.34	<b>0.35</b>	0.36			
18.5	19.0	19.5	<b>20.0</b>	0.37	0.38	0.39	<b>0.4</b>				
mU / minute				mU / 20 minute				Volume ml / 20 minute			
0.5	1	1.5	2	10	20	30	40	0.2	0.4	0.6	0.8
<b>2.5</b>	3	3.5	4	<b>50</b>	60	70	80	<b>1.0</b>	1.2	1.4	1.6
4.5	<b>5</b>	5.5	6	90	<b>100</b>	110	120	1.8	<b>2.0</b>	2.2	2.4
6.5	7	<b>7.5</b>	8	130	140	<b>150</b>	160	2.6	2.8	<b>3.0</b>	3.2
8.5	9	9.5	<b>10</b>	170	180	190	<b>200</b>	3.4	3.6	3.8	<b>4.0</b>
10.5	11	11.5	12	210	220	230	240	4.2	4.4	4.6	4.8
<b>12.5</b>	13	13.5	14	<b>250</b>	260	270	280	<b>5.0</b>	5.2	5.4	5.6
14.5	<b>15</b>	15.5	16	290	<b>300</b>	310	320	5.8	<b>6.0</b>	6.2	6.4
16.5	17	<b>17.5</b>	18	330	340	<b>350</b>	360	6.6	6.8	<b>7.0</b>	7.2
18.5	19	19.5	<b>20</b>	370	380	390	<b>400</b>	7.4	7.6	7.8	<b>8.0</b>
mU / minute				mU / 30 minute				Volume ml / 30 minute			
0.5	1	1.5	2	15	30	45	60	0.3	0.6	0.9	1.2
<b>2.5</b>	3	3.5	4	<b>75</b>	90	105	120	<b>1.5</b>	1.8	2.1	2.4
4.5	<b>5</b>	5.5	6	135	<b>150</b>	165	180	2.7	<b>3.0</b>	3.3	3.6
6.5	7	<b>7.5</b>	8	195	210	<b>225</b>	240	3.9	4.2	<b>4.5</b>	4.8
8.5	9	9.5	<b>10</b>	255	270	285	<b>300</b>	5.1	5.4	5.7	<b>6.0</b>
10.5	11	11.5	12	315	330	345	360	6.3	6.6	6.9	7.2
<b>12.5</b>	13	13.5	14	<b>375</b>	390	405	420	<b>7.5</b>	7.8	8.1	8.4
14.5	<b>15</b>	15.5	16	435	<b>450</b>	465	480	8.7	<b>9.0</b>	9.3	9.6
16.5	17	<b>17.5</b>	18	495	510	<b>525</b>	540	9.9	10.2	<b>10.5</b>	10.8
18.5	19	19.5	<b>20</b>	555	570	585	<b>600</b>	11.1	11.4	11.7	<b>12.0</b>
Volumes containing the recommended dosage range for 1, 20 and 30 minutes.											

# Synthetic Oxytocin 5 IU in 50 ml

**5.0 mU / 0.05 ml  
= unlicensed  
dilution  
NOT for drip  
infusion**

1 ml

100 mU

1 ml

100 mU

## **SYRINGE DRIVER**

1 ml

100 mU

1 ml

100 mU

**1 mU / 0.01 ml**

At this dilution a syringe driver is essential to control speed of infusion



## 5 IU synthetic oxytocin in 50 ml for Syringe Driver

mU / minute				ml / minute			
0.5	1	1.5	2	0.005	0.01	0.015	0.02
<b>2.5</b>	3	3.5	4	<b>0.025</b>	0.03	0.035	0.04
4.5	<b>5</b>	5.5	6	0.045	<b>0.05</b>	0.055	0.06
6.5	7	<b>7.5</b>	8	0.065	0.07	<b>0.075</b>	0.08
8.5	9	9.5	<b>10</b>	0.085	0.09	0.095	<b>0.1</b>
10.5	11	11.5	12	0.105	0.11	0.115	0.12
<b>12.5</b>	13	13.5	14	<b>0.125</b>	0.13	0.135	0.14
14.5	<b>15</b>	15.5	16	0.145	<b>0.15</b>	0.155	0.16
16.5	17	<b>17.5</b>	18	0.165	0.17	<b>0.175</b>	0.18
18.5	19	19.5	<b>20</b>	0.185	0.19	0.195	<b>0.2</b>
mU / 20 minute				ml / 20 minute			
10	20	30	40	0.1	0.2	0.3	0.4
<b>50</b>	60	70	80	<b>0.5</b>	0.6	0.7	0.8
90	<b>100</b>	110	120	0.9	<b>1.0</b>	1.1	1.2
130	140	<b>150</b>	160	1.3	1.4	<b>1.5</b>	1.6
170	180	190	<b>200</b>	1.7	1.8	1.9	<b>2.0</b>
210	220	230	240	2.1	2.2	2.3	2.4
<b>250</b>	260	270	280	<b>2.5</b>	2.6	2.7	2.8
290	<b>300</b>	310	320	2.9	<b>3.0</b>	3.1	3.2
330	340	<b>350</b>	360	3.3	3.4	<b>3.5</b>	3.6
370	380	390	<b>400</b>	3.7	3.8	3.9	<b>4.0</b>
mU / 40 minutes				ml / 40 minutes			
20	40	60	80	0.2	0.4	0.6	0.8
<b>100</b>	120	140	160	<b>1.0</b>	1.2	1.4	1.6
180	<b>200</b>	220	240	1.8	<b>2.0</b>	2.2	2.4
260	280	<b>300</b>	320	2.6	2.8	<b>3.0</b>	3.2
340	360	380	<b>400</b>	3.4	3.6	3.8	<b>4.0</b>
420	440	460	480	4.2	4.4	4.6	4.8
<b>500</b>	520	540	560	<b>5.0</b>	5.2	5.4	5.6
580	<b>600</b>	620	640	5.8	<b>6.0</b>	6.2	6.4
660	680	<b>700</b>	720	6.6	6.8	<b>7.0</b>	7.2
740	760	780	<b>800</b>	7.4	7.6	7.8	<b>8.0</b>
Showing mU and ml for 1, 20 and 40 minutes.							

# Synthetic Oxytocin 10 IU in 50 ml

**10.0 mU / 0.05 ml  
= unlicensed  
dilution  
NOT for drip  
infusion**

1 ml

200 mU

1 ml

200 mU

## **SYRINGE DRIVER**

1 ml

200 mU

1 ml

200 mU

**2 mU / 0.01 ml**

At this dilution a syringe driver is essential  
to control speed of infusion

Licensed dosage range in one twentieth of the licensed volume

## 10 IU synthetic oxytocin in 50 ml for Syringe Driver

mU / minute				ml / minute			
0.5	1	1.5	2	0.0025	0.005	0.0075	0.01
<b>2.5</b>	3	3.5	4	<b>0.0125</b>	0.015	0.0175	0.02
4.5	<b>5</b>	5.5	6	0.0225	<b>0.025</b>	0.0275	0.03
6.5	7	<b>7.5</b>	8	0.0325	0.035	<b>0.0375</b>	0.04
8.5	9	9.5	<b>10</b>	0.0425	0.045	0.0475	<b>0.05</b>
10.5	11	11.5	12	0.0525	0.055	0.0575	0.06
<b>12.5</b>	13	13.5	14	<b>0.0625</b>	0.065	0.0675	0.07
14.5	<b>15</b>	15.5	16	0.0725	<b>0.075</b>	0.0775	0.08
16.5	17	<b>17.5</b>	18	0.0825	0.085	<b>0.0875</b>	0.09
18.5	19	19.5	<b>20</b>	0.0925	0.095	0.0975	<b>0.1</b>
mU / 20 minutes				ml / 20 minutes			
10	20	30	40	0.05	0.1	0.15	0.2
<b>50</b>	60	70	80	<b>0.25</b>	0.3	0.35	0.4
90	<b>100</b>	110	120	0.45	<b>0.5</b>	0.55	0.6
130	140	<b>150</b>	160	0.65	0.7	<b>0.75</b>	0.8
170	180	190	<b>200</b>	0.85	0.9	0.95	<b>1.0</b>
210	220	230	240	1.05	1.1	1.15	1.2
<b>250</b>	260	270	280	<b>1.25</b>	1.3	1.35	1.4
290	<b>300</b>	310	320	1.45	<b>1.5</b>	1.55	1.6
330	340	<b>350</b>	360	1.65	1.7	<b>1.75</b>	1.8
370	380	390	<b>400</b>	1.85	1.9	1.95	<b>2.0</b>

Volumes containing recommended dosage range for 1 and 20 minutes. To alter rate by 0.5 mU / minute, slow or increase pump rate by 10 mU in 0.05 ml