

# SESLHD PROCEDURE

## Anticoagulation with Intravenous Heparin Sodium Infusion

SESLHDPR/402

### APPENDIX B – Acute Coronary Syndrome and Higher Bleeding Risk Protocol (Where bleeding risk needs to be minimised) <sup>5</sup>

<b>IV HEPARIN ACUTE CORONARY SYNDROME AND HIGHER BLEEDING RISK PROTOCOL</b>	
<b>Initial IV bolus dosage:</b> <ul style="list-style-type: none"> <li>Use Heparin Sodium 5,000 units in 5 mL ampoules/ concentration</li> <li><b>For patients weighing 60 kg and over administer a bolus dose of 4000 units</b></li> <li><b>For patients weighing less than 60 kg administer a weight based bolus of 60 units/kg</b> (calculated below)</li> <li>There may be circumstances where the bolus dose is omitted, for example if the patient is receiving another anticoagulant agent and a delayed onset of anticoagulant effect is required</li> </ul>	
<b>Bolus Dose for Patients weighing 60 kg and over</b>	
Weight (kg)	Bolus (Units)
60 kg and over	4000

Acute Coronary Syndrome and Higher Bleeding Risk

<b>Weight Based Bolus Dose</b>	
Weight (kg)	BOLUS (Units)
40 kg	2400
45 kg	2700
50 kg	3000
55 kg	3300

<b>IV HEPARIN ACUTE CORONARY SYNDROME &amp; HIGHER BLEEDING RISK PROTOCOL</b>	
<b>Infusion Initiation Protocol:</b> <ul style="list-style-type: none"> <li>Use Premixed Solution of Heparin Sodium 25,000 units in 250 mL Sodium Chloride 0.9% (100 units per mL)</li> <li><b>Initial infusion rate based on 12 units/kg/hr</b>, rounded to nearest 1 mL per hour (calculated below)</li> <li>The <b>initial</b> infusion rate should not exceed 1,000 units/hr</li> </ul>	

Weight (kg)	Units per Hour	Infusion Pump Starting Rate (mL/hr)
40	480 Units	5
45	540 Units	5
50	600 Units	6
55	660 Units	7
60	720 Units	7
65	780 Units	8
70	840 Units	8
75	900 Units	9
80 and over	960 Units	10

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IV HEPARIN INFUSION RATE ADJUSTMENT NOMOGRAM (adjust infusion rate according to the APTT)				
APTT (seconds)	Bolus Dose	Stop Infusion	IV Rate Change (mL/hr)	Repeat APTT
Less than 45	Nil	No	<ul style="list-style-type: none"> <li>Increase rate by 1 mL/hr from current rate</li> </ul>	4-6 hours
45-70	<p style="text-align: center;"><b>Therapeutic Range</b> No change from current rate</p>		<ul style="list-style-type: none"> <li>Repeat at 6 Hours</li> <li>After 2 consecutive therapeutic APTTs, check APTT in 24 hours</li> <li>Daily APTT while results are within therapeutic range</li> </ul>	
70.1 to 90	Nil	No	<ul style="list-style-type: none"> <li>Decrease rate by 1 mL/hr from current rate</li> </ul>	4-6 hours
90.1 to 105	Nil	No	<ul style="list-style-type: none"> <li>Decrease rate by 2 mL/hr from current rate</li> </ul>	4-6 hours
Greater than 105	Nil	<ul style="list-style-type: none"> <li>Yes - Stop for 90 minutes</li> <li>MO to assess patient for bleeding</li> </ul>	<ul style="list-style-type: none"> <li>Restart infusion after 90 minutes &amp; reduce previous rate by 2 mL/hr</li> </ul>	4-6 hours after recommencing infusion

ACUTE CORONARY SYNDROME AND HIGHER BLEEDING RISK PROTOCOL