Argatroban Protocol

Standard concentration: 1mg/ml (250mg in 250ml of 0.9% NaCl)
Stable for 24 hours at room temperature or 48 hours under refrigeration.
Obtain a baseline aPTT level before starting therapy.

Dosing in HIT (Heparin Induced Thrombocytopenia):
Normal hepatic function: Initiate at 2mcg/kg/min; (0.12ml/kg/hr)
Adjust dose in increments of 0.5mcg/kg/min
Moderate hepatic impairment: Initiate at 0.5mcg/kg/min; (0.03ml/kg/hr)
Adjust dose in increments of 0.25mcg/kg/min
Monitor aPTT levels every 2 hours until and adjust until aPTT is 1.5-3 times baseline.
***Do not exceed aPTT of 100 seconds
***Do not exceed infusion rate of 10mcg/kg/min

Baseline aPTT: _____

aPTT Target Range:_____ to _____
1.5 x baseline 3 x baseline

Dosing in PCI (Percutaneous Coronary Interventions) in HIT Patients:
A central line must be used to administer drug in these patients.
Bolus of 350mg/kg (over 3-5minutes) followed by infusion of 25mcg/kg/min.

Obtain ACT (activated clotting time) 5-10 minutes after the bolus. If ACT is between 300 and 450 seconds, procedure may proceed.
If ACT < 450, decrease infusion to 15mcg/kg/min and recheck ACT after 5-10 minutes.
If ACT < 300 seconds, rebolus with 150mcg/kg and increase infusion to 30mcg/kg/min.
Recheck ACT after 5-10 minutes. If ACT still less than 300 seconds, rebolus again with 150mcg/kg and increase infusion to 40mcg/kg/min.
If patient required anticoagulation after the procedure, refer to the "Dosing in HIT" section.

Drip rates for use in HIT:

Patient Weight (kg)	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130
10mcg/kg/min (ml/hr)	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0
9.5mcg/kg/min (ml/hr)	25.7	28.5	31.4	34.2	37.1	39.9	42.8	45.6	48.5	51.3	54.2	57.0	59.9	62.7	65.6	68.4	71.3	74.1
9mcg/kg/min (ml/hr)	24.3	27.0	29.7	32.4	35.1	37.8	40.5	43.2	45.9	48.6	51.3	54.0	56.7	59.4	62.1	64.8	67.5	70.2
8.5mcg/kg/min (ml/hr)	23.0	25.5	28.1	30.6	33.2	35.7	38.3	40.8	43.4	45.9	48.5	51.0	53.6	56.1	58.7	61.2	63.8	66.3
8mcg/kg/min (ml/hr)	21.6	24.0	26.4	28.8	31.2	33.6	36.0	38.4	40.8	43.2	45.6	48.0	50.4	52.8	55.2	57.6	60.0	62.4
7.5mcg/kg/min (ml/hr)	20.3	22.5	24.8	27.0	29.3	31.5	33.8	36.0	38.3	40.5	42.8	45.0	47.3	49.5	51.8	54.0	56.3	58.5
7mcg/kg/min (ml/hr)	18.9	21.0	23.1	25.2	27.3	29.4	31.5	33.6	35.7	37.8	39.9	42.0	44.1	46.2	48.3	50.4	52.5	54.6
6.5mcg/kg/min (ml/hr)	17.6	19.5	21.5	23.4	25.4	27.3	29.3	31.2	33.2	35.1	37.1	39.0	41.0	42.9	44.9	46.8	48.8	50.7
6mcg/kg/min (ml/hr)	16.2	18.0	19.8	21.6	23.4	25.2	27.0	28.8	30.6	32.4	34.2	36.0	37.8	39.6	41.4	43.2	45.0	46.8
5.5mcg/kg/min (ml/hr)	14.9	16.5	18.2	19.8	21.5	23.1	24.8	26.4	28.1	29.7	31.4	33.0	34.7	36.3	38.0	39.6	41.3	42.9
5mcg/kg/min (ml/hr)	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0
4.5mcg/kg/min (ml/hr)	12.2	13.5	14.9	16.2	17.6	18.9	20.3	21.6	23.0	24.3	25.7	27.0	28.4	29.7	31.1	32.4	33.8	35.1
4mcg/kg/min (ml/hr)	10.8	12.0	13.2	14.4	15.6	16.8	18.0	19.2	20.4	21.6	22.8	24.0	25.2	26.4	27.6	28.8	30.0	31.2
3.5mcg/kg/min (ml/hr)	9.5	10.5	11.6	12.6	13.7	14.7	15.8	16.8	17.9	18.9	20.0	21.0	22.1	23.1	24.2	25.2	26.3	27.3
3mcg/kg/min (ml/hr)	8.1	9.0	9.9	10.8	11.7	12.6	13.5	14.4	15.3	16.2	17.1	18.0	18.9	19.8	20.7	21.6	22.5	23.4
2.5mcg/kg/min (ml/hr)	6.8	7.5	8.3	9.0	9.8	10.5	11.3	12.0	12.8	13.5	14.3	15.0	15.8	16.5	17.3	18.0	18.8	19.5
2mcg/kg/min (ml/hr)	5.4	6.0	6.6	7.2	7.8	8.4	9.0	9.6	10.2	10.8	11.4	12.0	12.6	13.2	13.8	14.4	15.0	15.6
1.75mcg/kg/min (ml/hr)	4.7	5.3	5.8	6.3	6.8	7.4	7.9	8.4	8.9	9.5	10.0	10.5	11.0	11.6	12.1	12.6	13.1	13.7
1.5mcg/kg/min (ml/hr)	4.1	4.5	5.0	5.4	5.9	6.3	6.8	7.2	7.7	8.1	8.6	9.0	9.5	9.9	10.4	10.8	11.3	11.7
1.25mcg/kg/min (ml/hr)	3.4	3.8	4.1	4.5	4.9	5.3	5.6	6.0	6.4	6.8	7.1	7.5	7.9	8.3	8.6	9.0	9.4	9.8
1mcg/kg/min (ml/hr)	2.7	3.0	3.3	3.6	3.9	4.2	4.5	4.8	5.1	5.4	5.7	6.0	6.3	6.6	6.9	7.2	7.5	7.8
0.75mcg/kg/min (ml/hr)	2.0	2.3	2.5	2.7	2.9	3.2	3.4	3.6	3.8	4.1	4.3	4.5	4.7	5.0	5.2	5.4	5.6	5.9
0.5mcg/kg/min (ml/hr)	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.3	3.5	3.6	3.8	3.9
0.25mcg/kg/min (ml/hr)	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.6	1.7	1.7	1.8	1.9	2.0

Adverse Reactions: bleeding, hypotension, fever, diarrhea
If toxicity occurs, hold the drip and aPTT levels should return to normal in 2-4 hours. If a life threatening severe overdose occurs, the patient can be treated with fresh frozen plasma.

This protocol hasn't been approved by any P&T committee and should be used for informational purposes only.