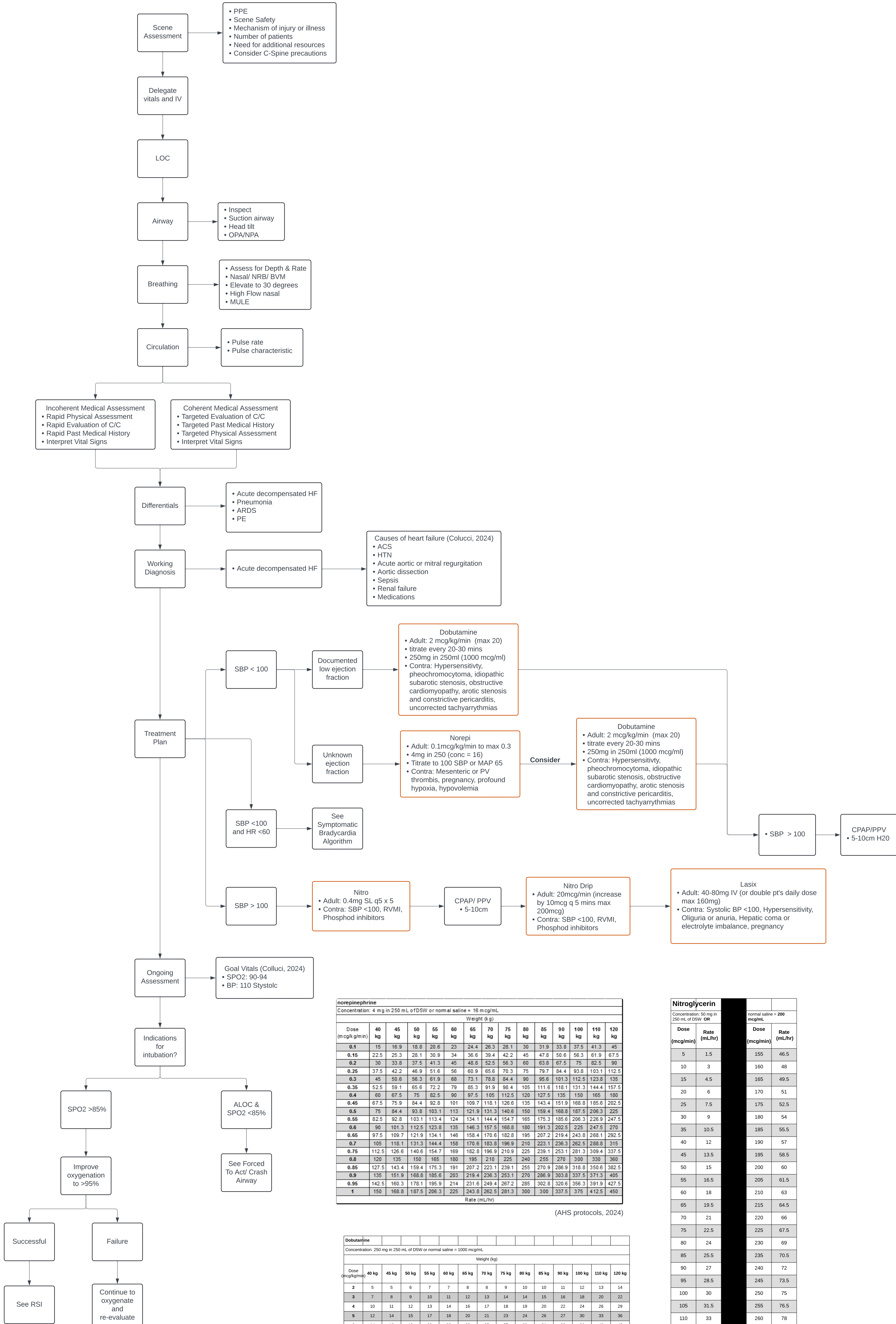


# Acute Decompensated Heart Failure



norepinephrine																
Concentration: 4 mg in 250 mL of 0.9% NS or normal saline = 16 mcg/mL																
Dose (mcg/kg/min)	Weight (kg)															
	40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	100 kg	110 kg	120 kg		
0.1	15	16.9	18.8	20.6	23	24.4	26.3	28.1	30	31.9	33.8	37.5	41.3	45		
0.15	22.5	25.3	28.1	30.9	34	36.6	39.4	42.2	45	47.8	50.6	56.3	61.9	67.5		
0.2	30	33.8	37.5	41.3	45	48.8	52.5	56.3	60	63.8	67.5	75	82.5	90		
0.25	37.5	42.2	46.9	51.6	56	60.9	65.6	70.3	75	79.7	84.4	93.8	103.1	112.5		
0.3	45	50.6	56.3	61.9	68	73.1	78.8	84.4	90	95.6	101.3	112.5	123.8	135		
0.35	52.5	59.1	65.6	72.2	79	85.3	91.9	98.4	105	111.6	118.1	131.3	144.4	157.5		
0.4	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	150	165	180		
0.45	67.5	75.9	84.4	92.8	101	109.7	118.1	126.6	135	143.4	151.9	168.8	185.6	202.5		
0.5	75	84.4	93.8	103.1	113	121.9	131.3	140.6	150	159.4	168.8	187.5	206.3	225		
0.55	82.5	92.8	103.1	113.4	124	134.1	144.4	154.7	165	175.3	185.6	206.3	226.9	247.5		
0.6	90	101.3	112.5	123.8	135	146.3	157.5	168.8	180	191.3	202.5	225	247.5	270		
0.65	97.5	109.7	121.9	134.1	146	158.4	170.6	182.8	195	207.2	219.4	243.8	268.1	292.5		
0.7	105	118.1	131.3	144.4	158	170.6	183.8	196.9	210	223.1	236.3	262.5	288.8	315		
0.75	112.5	126.6	140.6	154.7	169	182.8	196.9	210.9	225	239.1	253.1	281.3	309.4	337.5		
0.8	120	135	150	165	180	195	210	225	240	255	270	300	330	360		
0.85	127.5	143.4	159.4	175.3	191	207.2	223.1	239.1	255	270.9	286.9	318.8	350.6	382.5		
0.9	135	151.9	168.8	185.6	203	219.4	236.3	253.1	270	286.9	303.8	337.5	371.3	405		
0.95	142.5	160.3	178.1	195.9	214	231.6	249.4	267.2	285	302.8	320.6	356.3	391.9	427.5		
1	150	168.8	187.5	206.3	225	243.8	262.5	281.3	300	300	337.5	375	412.5	450		
Rate (mL/hr)																

(AHS protocols, 2024)

Dobutamine																
Concentration: 250 mg in 250 mL of 0.9% NS or normal saline = 1000 mcg/mL																
Dose (mcg/kg/min)	Weight (kg)															
	40 kg	45 kg	50 kg	55 kg	60 kg	65 kg	70 kg	75 kg	80 kg	85 kg	90 kg	100 kg	110 kg	120 kg		
2	5	5	6	7	7	8	8	9	10	10	11	12	13	14		
3	7	8	9	10	11	12	13	14	14	15	16	18	20	22		
4	10	11	12	13	14	16	17	18	19	20	22	24	26	29		
5	12	14	15	17	18	20	21	23	24	26	27	30	33	36		
6	14	16	18	20	22	23	25	27	29	31	32	36	40	43		
7	17	19	21	23	25	27	29	32	34	36	38	42	46	50		
8	19	22	24	26	29	31	34	36	38	41	43	48	53	58		
9	22	24	27	30	32	35	38	41	43	46	49	54	59	65		
10	24	27	30	33	36	39	42	45	48	51	54	60	66	72		
11	26	30	33	36	40	43	46	50	53	56	59	66	73	79		
12	29	32	36	40	43	47	50	54	58	61	65	72	79	86		
13	31	35	39	43	47	51	55	59	62	66	70	78	86	94		
14	34	38	42	46	50	55	59	63	67	71	76	84	92	101		
15	36	41	45	50	54	59	63	68	72	77	81	90	99	108		
16	38	43	48	53	58	62	67	72	77	82	86	96	106	115		
17	41	46	51	56	61	66	71	77	82	87	92	102	112	122		
18	43	49	54	59	65	70	76	81	86	92	97	108	119	130		
19	46	51	57	63	68	74	80	86	91	97	103	114	125	137		
20	48	54	60	66	72	78	84	90	96	102	108	120	132	140		

(AHS protocols, 2024)

Nitroglycerin							
Concentration: 50 mg in 250 mL of 0.9% NS OR normal saline = 200 mcg/mL							
Dose (mcg/min)	Rate (mL/hr)	Dose (mcg/min)	Rate (mL/hr)				
5	1.5	155	46.5				
10	3	160	48				
15	4.5	165	49.5				
20	6	170	51				
25	7.5	175	52.5				
30	9	180	54				
35	10.5	185	55.5				
40	12	190	57				
45	13.5	195	58.5				
50	15	200	60				
55	16.5	205	61.5				
60	18	210	63				
65	19.5	215	64.5				
70	21	220	66				
75	22.5	225	67.5				
80	24	230	69				
85	25.5	235	70.5				
90	27	240	72				
95	28.5	245	73.5				
100	30	250	75				
105	31.5	255	76.5				
110	33	260	78				
115	34.5	265	79.5				
120	36	270	81				
125	37.5	275	82.5				
130	39	280	84				
135	40.5	285	85.5				
140	42	290	87				
145	43.5	295	88.5				
150	45	300	90				

(AHS protocols, 2024)

## References

- 1) AHS protocols. (2024, August 8). <https://www.ahsems.com/public/protocols/templates/desktop/#home>
- 2) Colucci, W. S. (2024, July 21). *Treatment of acute decompensated heart failure: General considerations*. UpToDate. <https://www.uptodate.com/contents/treatment-of-acute-decompensated-heart-failure-general-considerations>