



# EMS System for Metropolitan Oklahoma City and Tulsa 2026 Medical Control Board Treatment Protocols



Approved 9/17/25, Effective 1/15/26, replaces all prior versions

## 16L – DOPAMINE (INTROPIN®)

### PARAMEDIC

**Class:** Vasoconstrictor

**Actions/Pharmacodynamics:** Dose dependent. Higher doses (5+ mcg/kg/min) increasingly stimulate alpha receptors in the peripheral vasculature, producing vasoconstriction-related increases in system blood pressure. Concurrent beta receptor stimulation may produce increases in heart rate and mild bronchodilation. Lower doses (<5 mcg/kg/min), as may be encountered infrequently in interhospital transfers, produce mesenteric (intestinal) and renal vascular dilation to ensure continued perfusion to these organ systems in complicated medical illness that would otherwise sacrifice such circulation.

**Indications:** Dyspnea - Congestive Heart Failure (Cardiogenic Shock) (3E)  
Post Cardiac Arrest Treatment (Cardiogenic Shock) (4J)  
Acute Coronary Syndrome (Cardiogenic Shock) (5C)  
Sepsis (Septic Shock) (9B)  
Dialysis-Related Issues (9E)  
For all listed situations, indication is hypotension (adult = systolic < 100 mmHg) due to cardiogenic, septic, or neurogenic shock either refractory to intravascular fluid boluses or in which intravascular fluid bolusing is contraindicated (eg. pulmonary edema).

**Contraindications:** Hypertension

**Pharmacokinetics:** Onset of action within 5 minutes after IV/IO infusion initiated. Rapid metabolism, requiring ongoing IV/IO infusion to maintain clinical effects.

**Side Effects:** Palpitations, tachycardia, chest pain, and hypertension if not titrated.

**Dosage:** Dyspnea - Congestive Heart Failure (Cardiogenic Shock) - Adult (3E)  
Post Cardiac Arrest Treatment (Cardiogenic Shock) - Adult (4J)  
Acute Coronary Syndrome (Cardiogenic Shock) - Adult (5C)  
Sepsis (Septic Shock) - Adult (9B)  
Dialysis-Related Issues - Adult (9E)  
For hypotension (shock) refractory to fluids or fluids contraindicated  
5 – 20 mcg/kg/minute - see dosage chart - titrate to a sys B/P  $\geq$  100 mmHg.

Dyspnea - Congestive Heart Failure (Cardiogenic Shock) - Pediatric (3E)  
Post Cardiac Arrest Treatment (Cardiogenic Shock) - Pediatric (4J)  
Sepsis (Septic Shock) - Pediatric (9B)  
Dialysis-Related Issues - Pediatric (9E)  
For hypotension (shock) refractory to fluids or fluids contraindicated  
\*\*OLMC Order Only.



# EMS System for Metropolitan Oklahoma City and Tulsa 2026 Medical Control Board Treatment Protocols



Approved 9/17/25, Effective 1/15/26, replaces all prior versions

## PROTOCOL 16L: Dopamine (Intropin®), cont

### Dopamine Infusion Adult Dosage Chart

Patient Weight in Kilograms	Dopamine	Dose in mcg			
		5	10	15	20
40		8	15	23	30
50		9	19	28	38
60		11	23	34	45
70		13	26	39	53
80		15	30	45	60
90		17	34	51	68
100		19	38	56	75
110		21	41	62	83
120		23	45	68	90
130		24	49	73	98
140		26	53	79	105
150		28	56	84	113
160		30	60	90	120
170		32	64	96	128
180		34	68	101	135
190		36	71	107	143
200		38	75	113	150
210		39	79	118	158
220		41	83	124	165
230		43	86	129	173
240		45	90	135	180
250		47	94	141	188

mL/hr or drips/minute (for 1600 mcg concentration only)

**How Supplied:** 400 mg/10 mL vial to be mixed into 250 mL D5W. (1600 mcg/mL concentration)

OR pre-mixed dopamine infusion at 1600 mcg/mL concentration.

(Always check concentration and dose per container at time of patient medication administration)

**Special Comments:** Relative caution should be exercised prior to use in the setting of marked tachydysrhythmias, due to the potential for further increase in heart rates. In the setting of tachydysrhythmia-induced cardiogenic shock, treat per Protocol 5G - Tachycardia - Unstable. Ensure aggressive fluid resuscitation is accomplished (unless contraindicated) prior to dopamine use.