

## Appendix I

### FACTT Algorithm: Composite Protocol-*Version 2*

Intravascular Pressure				<b>MAP &lt; 60 mm Hg or on: dopamine &gt;5 mcg/kg/min or any dose of another vasopressor.</b>  Consider correctable causes of shock first.	MAP ≥ 60 mm Hg AND off vasopressors (Dopamine ≤ 5 mcg/kg/min is <i>not</i> a vasopressor)			
CVP		PAOP <sup>G</sup>			Average UOP < 0.5 ml/kg/hr		Average UOP ≥ 0.5 ml/kg/hr	
Conservative	Liberal	Conservative	Liberal		<b>Ineffective Circulation</b> C.I. < 2.5 <b>OR</b> Cold & mottled with capillary refill >2 sec	<b>Effective Circulation</b> C.I. ≥ 2.5 <b>OR</b> Absence of ineffective circulation criteria	<b>Ineffective Circulation</b> C.I. < 2.5 <b>OR</b> Cold & mottled with capillary refill > 2 sec	<b>Effective Circulation</b> C.I. ≥ 2.5 <b>OR</b> Absence of ineffective circulation criteria
<b>Range I</b>				Cell number  1	KVO IV <b>3</b>	KVO IV <b>7</b>	KVO IV <b>11</b>	KVO IV <b>15</b>
> 13	> 18	> 18	> 24		Dobutamine <sup>A</sup> Furosemide <sup>B,1,2,4</sup>	Furosemide <sup>B,1,2,4</sup>	Dobutamine <sup>A</sup> Furosemide <sup>B,1,3,4</sup>	Furosemide <sup>B,1,3,4</sup>
<b>Range II</b>				Vasopressor <sup>F</sup> Fluid bolus <sup>F</sup>	KVO IV <b>4</b>	KVO IV <b>8</b>	KVO IV <b>12</b>	KVO IV <b>16</b>
9-13	15-18	13-18	19-24		Dobutamine <sup>A</sup>	Furosemide <sup>B,1,2,4</sup>	Dobutamine <sup>A</sup>	Furosemide <sup>B,1,3,4</sup>
<b>Range III</b>				2  Superscript-refers to footnotes	Fluid bolus <sup>C</sup> <b>5</b>	Fluid bolus <sup>C</sup> <b>9</b>	Fluid bolus <sup>C</sup> <b>13</b>	<b>Liberal:</b> <b>17</b>
4-8	10-14	8-12	14-18					KVO IV <b>Conservative: 18</b> Furosemide <sup>B,1,3,4</sup>
<b>Range IV</b>					Fluid bolus <sup>C</sup> <b>6</b>	Fluid bolus <sup>C</sup> <b>10</b>	Fluid bolus <sup>C</sup> <b>14</b>	<b>Liberal:</b> <b>19</b>
< 4	< 10	< 8	< 14	Fluid bolus <sup>F</sup> Vasopressor <sup>F</sup>			Fluid bolus <sup>D</sup> <b>Conservative:</b> KVO IV <b>20</b>	

**FACTT ALGORITHM: CVC Conservative**

Central Venous Pressure (mmHg)	MAP < 60 mm Hg or on: dopamine >5 mcg/kg/min or any dose of another vasopressor  Consider correctable causes of shock first.	MAP ≥ 60 mm Hg AND off vasopressors (Dopamine ≤ 5 mcg/kg/min is <i>not</i> a vasopressor)			
		Average UOP < 0.5 ml/kg/hr		Average UOP ≥ 0.5 ml/kg/hr	
		Ineffective Circulation Cold & mottled with capillary refill >2 sec (all 3 criteria present)	Effective Circulation <i>Absence</i> of ineffective circulation criteria	Ineffective Circulation Cold & mottled with capillary refill > 2 sec (all 3 criteria present)	Effective Circulation <i>Absence</i> of ineffective circulation criteria
> 13	1*	KVO IV <b>3</b> Dobutamine <sup>A</sup> Furosemide <sup>B.1,2,4</sup>	KVO IV <b>7</b> Furosemide <sup>B.1,2,4</sup>	KVO IV <b>11</b> Dobutamine <sup>A</sup> Furosemide <sup>B.1,3,4</sup>	KVO IV <b>15</b> Furosemide <sup>B.1,3,4</sup>
9-13	Vasopressor <sup>F+</sup> Fluid bolus <sup>F</sup>	KVO IV <b>4</b> Dobutamine <sup>A</sup>	KVO IV <b>8</b> Furosemide <sup>B.1,2,4</sup>	KVO IV <b>12</b> Dobutamine <sup>A</sup>	KVO IV <b>16</b> Furosemide <sup>B.1,3,4</sup>
4-8	2	Fluid bolus <sup>C</sup> <b>5</b>	Fluid bolus <sup>C</sup> <b>9</b>	Fluid bolus <sup>C</sup> <b>13</b>	<b>18</b>  Furosemide <sup>B.1,3,4</sup>
< 4	Fluid bolus <sup>F</sup> Vasopressor <sup>F</sup>	Fluid bolus <sup>C</sup> <b>6</b>	Fluid bolus <sup>C</sup> <b>10</b>	Fluid bolus <sup>C</sup> <b>14</b>	<b>20</b>  KVO IV  GOAL CELL

**FACTT Algorithm: CVC Liberal**

Central Venous Pressure (mmHg)	MAP < 60 mm Hg or on: dopamine >5 mcg/kg/min or any dose of another vasopressor Consider correctable causes of shock first.	MAP ≥ 60 mm Hg AND off vasopressors (Dopamine ≤ 5 mcg/kg/min is <i>not</i> a vasopressor)			
		Average UOP < 0.5 ml/kg/hr		Average UOP ≥ 0.5 ml/kg/hr	
		Ineffective Circulation  Cold & mottled with capillary refill >2 sec (all 3 criteria present)	Effective Circulation  <i>Absence</i> of ineffective circulation criteria	Ineffective Circulation  Cold & mottled with capillary refill 2 sec (all 3 criteria present)	Effective Circulation  <i>Absence</i> of ineffective circulation criteria
> 18	1*	KVO IV <b>3</b> Dobutamine <sup>A</sup> Furosemide <sup>B.1,2,4</sup>	KVO IV <b>7</b> Furosemide <sup>B.1,2,4</sup>	KVO IV <b>11</b> Dobutamine <sup>A</sup> Furosemide <sup>B.1,3,4</sup>	KVO IV <b>15</b> Furosemide <sup>B.1,3,4</sup>
15-18		Vasopressor <sup>F+</sup> Fluid bolus <sup>F</sup>	KVO IV <b>4</b> Dobutamine <sup>A</sup>	KVO IV <b>8</b> Furosemide <sup>B.1,2,4</sup>	KVO IV <b>12</b> Dobutamine <sup>A</sup>
10-14	2	Fluid bolus <sup>C</sup> <b>5</b>	Fluid bolus <sup>C</sup> <b>9</b>	Fluid bolus <sup>C</sup> <b>13</b>	KVO IV <b>17</b>  <i>GOAL CELL</i>
< 10		Fluid bolus <sup>F</sup> Vasopressor <sup>F</sup>	Fluid bolus <sup>C</sup> <b>6</b>	Fluid bolus <sup>C</sup> <b>10</b>	Fluid bolus <sup>C</sup> <b>14</b>

**FACTT ALGORITHM: PAC Conservative**

Pulmonary Artery Occlusion Pressure (mm Hg)	CVP (mm Hg) Use only if PA occlusion pressure unobtainable	MAP < 60 mm Hg or on: dopamine >5 mcg/kg/min or any dose of another vasopressor.  Consider correctable causes of shock first.	MAP ≥ 60 mm Hg AND off vasopressors (Dopamine ≤ 5 mcg/kg/min is <i>not</i> a vasopressor)			
			Average UOP < 0.5 ml/kg/hr		Average hr UOP ≥ 0.5 ml/kg/hr	
			Ineffective Circulation C.I. < 2.5 (or cold & mottled with capillary refill >2 sec if CI unavailable)	Effective Circulation C.I. ≥ 2.5 (or absence of ineffective circulation criteria if CI unavailable)	Ineffective Circulation C.I. < 2.5 (or Cold & mottled with capillary refill > 2 sec if CI unavailable)	Effective Circulation C.I. ≥ 2.5 (or absence of ineffective circulation criteria if CI unavailable)
>18	>13	1*	KVO IV Dobutamine <sup>A</sup> Furosemide <sup>B,1,2,4</sup> <b>3</b>	KVO IV Furosemide <sup>B,1,2,4</sup> <b>7</b>	KVO IV Dobutamine <sup>A</sup> Furosemide <sup>B,1,3,4</sup> <b>11</b>	KVO IV Furosemide <sup>B,1,3,4</sup> <b>15</b>
13-18	9-13	Vasopressor <sup>F+</sup> Fluid bolus <sup>F</sup>	KVO IV Dobutamine <sup>A</sup> <b>4</b>	KVO IV Furosemide <sup>B,1,2,4</sup> <b>8</b>	KVO IV Dobutamine <sup>A</sup> <b>12</b>	KVO IV Furosemide <sup>B,1,3,4</sup> <b>16</b>
8-12	4-8	2	Fluid bolus <sup>C</sup> <b>5</b>	Fluid bolus <sup>C</sup> <b>9</b>	Fluid bolus <sup>C</sup> <b>13</b>	Furosemide <sup>B,1,3,4</sup> <b>18</b>
<8	<4	Fluid bolus <sup>F</sup> Vasopressor <sup>F</sup>	Fluid bolus <sup>C</sup> <b>6</b>	Fluid bolus <sup>C</sup> <b>10</b>	Fluid bolus <sup>C</sup> <b>14</b>	KVO IV  <i>GOAL CELL</i>

**FACTT ALGORITHM: PAC Liberal**

Pulmonary Artery Occlusion Pressure (mm Hg)	CVP (mm Hg) Use only if PA occlusion pressure unobtainable	MAP < 60 mm Hg or on: dopamine >5 mcg/kg/min or any dose of another vasopressor.  Consider correctable causes of shock first.	MAP ≥ 60 mm Hg AND off vasopressors (Dopamine ≤ 5 mcg/kg/min is <i>not</i> a vasopressor)			
			Average UOP < 0.5 ml/kg/hr		Average UOP ≥ 0.5 ml/kg/hr	
			Ineffective Circulation C.I. < 2.5 (or cold & mottled with capillary refill >2 sec if CI unavailable)	Effective Circulation C.I. ≥ 2.5 (or absence of ineffective circulation criteria if CI unavailable)	Ineffective Circulation C.I. < 2.5 (or cold & mottled with capillary refill > 2 sec if CI unavailable)	Effective Circulation C.I. ≥ 2.5 (or absence of ineffective circulation criteria if CI unavailable)
>24	>18	1*	KVO IV Dobutamine <sup>A</sup> Furosemide <sup>B.1,2,4</sup> <b>3</b>	KVO IV Furosemide <sup>B.1,2,4</sup> <b>7</b>	KVO IV Dobutamine <sup>A</sup> Furosemide <sup>B.1,3,4</sup> <b>11</b>	KVO IV Furosemide <sup>B.1,3,4</sup> <b>15</b>
19-24	15-18	Vasopressor <sup>F†</sup> Fluid bolus <sup>F</sup>	KVO IV Dobutamine <sup>A</sup> <b>4</b>	KVO IV Furosemide <sup>B.1,2,4</sup> <b>8</b>	KVO IV Dobutamine <sup>A</sup> <b>12</b>	KVO IV Furosemide <sup>B.1,3,4</sup> <b>16</b>
14-18	10-14	2	Fluid bolus <sup>C</sup> <b>5</b>	Fluid bolus <sup>C</sup> <b>9</b>	Fluid bolus <sup>C</sup> <b>13</b>	KVO IV <i>GOAL CELL</i>
<14	<10		Fluid bolus <sup>F</sup> Vasopressor <sup>F</sup>	Fluid bolus <sup>C</sup> <b>6</b>	Fluid bolus <sup>C</sup> <b>10</b>	Fluid bolus <sup>C</sup> <b>14</b>