

is a compensatory increase in CO ([Table 303-2](#)). The central venous pressure (CVP) and pulmonary capillary wedge pressure (PCWP) are usually reduced. The most common cause of distributive shock is sepsis. Sepsis has recently been redefined as the dysregulated host response to infection resulting in life-threatening organ dysfunction. When this process is accompanied by persistent hypotension requiring vasopressor support (despite adequate volume resuscitation), it is classified as septic shock. Other processes that are manifest as cellular hypoxia related to a primary reduction of SVR include pancreatitis, severe burns, and liver failure. Anaphylaxis is predominantly an IgE-mediated allergic reaction that can rapidly develop after exposure to an allergen (food, medication, or insect bite), in which there is a profound distributive type of shock possibly mediated through histamine release. In this setting, there is evidence of both venous and arterial vasodilation. Studies have demonstrated extravasation of up to 35% of the circulating blood volume within 10 min. Patients with severe brain or spinal cord injury may have a reduction of SVR related to disruption of the autonomic pathways that regulate vascular tone. In these patients, there is pooling of blood in the venous system with a resulting decreased venous return and decreased CO. A final category of patients who present with distributive shock consists of those with adrenal insufficiency. Adrenal insufficiency may be related to chronic steroid use, medications (immune checkpoint inhibitor-associated primary adrenal insufficiency), metastatic malignancy, adrenal hemorrhage, infection (tuberculosis, HIV), autoimmune adrenalitis, or amyloidosis. In conditions of stress (such as infection or surgery), the deficit may become apparent with an inability to increase cortisol leading to vasodilation as well as aldosterone deficiency-mediated hypovolemia.

TABLE 303-2 Hemodynamic Characteristics of the Major Types of Shock