A 52 year old woman with a past medical history of polymyalgia rheumatica presented for elective laparoscopic colectomy. Her pre-operative medication includes prednisone, 12.5 mg, every day. Her preoperative evaluation is otherwise unremarkable. Following induction of anesthesia, the surgeon requested stress dose steroids. Stress dose steroids include the administration of 100 mg of hydrocortisone prior to surgical incision and every 8 hours for the following 24 hours. This is followed by a prednisone taper. Stress dose steroids are given to patients with intrinsic adrenal insufficiency, such as in Addisonâ€™s disease, or patients with a glucocorticoid deficiency secondary to medications that suppress the hypothalamic-pituitary-adrenal axis in an attempt to prevent perioperative adrenal insufficiency. The objectives of this presentation are to discuss the historical context for perioperative stress dose steroids and if there is any evidence for benefit to stress dosing steroids in the perioperative period.