**Abstract**

**Objectives**

To illustrate that the protease inhibitor (PI) ritonavir, widely used as part of the treatment of Hiv, might cause drug-drug interactions with inhaled corticosteroids.

**Material and methods**

A case report is presented.

**Results**

A Hiv-positive patient presented with gradually changing body composition that was ascribed to lipodystrophy. Finally, iatrogenic Cushing’s syndrome with secondary adrenal insufficiency was diagnosed due to a drug-drug interaction of ritonavir and fluticasone.

**Conclusion**

Lipodystrophy might mimick the Cushing’s syndrome. The combination of ritonavir and inhaled fluticasone may lead to systemic steroid excess causing Cushing’s syndrome and secondary adrenal insufficiency.