

An unusual infection after liposuction

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I do not have any relationships with industry
I will discuss non-FDA approved treatments



10 24 '96











10 20 2000

Diagnosis

- 24-hour urine cortisol 560 micrograms/dl (N<110)
- Elevated ACTH
- MRI pituitary adenoma **Cushing Disease**

Diagnosis

- **Biopsy-Superficial and deep granulomas rimmed by small lymphocytes**
- **Culture-Sporothrix schenckii**

Follow up

- **Treatment initiated with itraconazole 400mg daily**
- **When evaluated by neurosurgery one month later, normal cortisol levels**
- **When infection cleared and itraconazole discontinued, cortisol levels returned to pretreatment levels**
- **Resection of the pituitary tumor**
- **Cure of Cushing and infection**



Skin Signs of Cushing

- **Central obesity**
- **Buffalo hump**
- **Moon facies**
- **Hypertrichosis**
- **Acne**
- **Hyperpigmentation**
- **Widespread striae**
- **Poor wound healing**
- **Skin fragility**
- **Easy bruising**
- **Acanthosis nigricans**

Cushing Syndrome

- **Weight gain/obesity**
- **Menstrual changes**
- **Lethargy**
- **Abnormal glucose tolerance**
- **Atherosclerosis**
- **Osteopenia**
- **Edema**
- **Recurrent infections**

Cushing Syndrome

- 80% ACTH dependent -- 70% pituitary tumor, 10% ectopic production)
- 20% ACTH independent (adrenocortical adenoma or carcinoma)
- Women outnumber men 5:1 with pituitary etiology, age of onset 25 to 40 most common, this patient 39
- Treatment– surgery, radiation, medical
 - Medical options increasing due to improved knowledge of underlying mutations in ubiquitin-specific peptidase 8

Trends in Endocrin Met 2015; 26 : 573

Sporotrichosis

- Lives in vegetation and soil
- Traumatic transmission leads to male predominance and age at onset in 20 to 50 year range, most common site the extremities



Lymphocutaneous form

Sporotrichosis and Cushing's Disease

Lessons

- **Ulcerations after liposuction, think Cushing's**
- **Infection in a Cushing's patient may present with unusual patterns**

JAAD 1999; 40; 272



Erysipeloid

Sporotrichosis and Cushing's Disease

- Treatment of choice for sporotrichosis is itraconazole, 200 to 400 mg twice daily
- Itraconazole may cause adrenal suppression
- This patient's cortisol level normalized after four weeks on 400 mg per day **despite a functioning pituitary adenoma**

Derm Res Prac 2014 : 272376

Endocr Pract 2013 : e138-41

Itraconazole-corticoid effects

Multiple cases of cystic fibrosis patients treated with inhaled steroids plus itraconazole for allergic bronchopulmonary aspergillosis have developed adrenal suppression and paradoxical Cushing syndrome

Endocr Pract 2013 : e138-41

Itraconazole corticoid effects

- **Itraconazole is strong inhibitor of cytochrome P450 dependent CYP3A4, so inhibits metabolism of exogenous glucocorticoids**
- **Additionally steroidogenesis in the adrenals is suppressed**
- **Combined action leads to rapid onset of Cushing syndrome**

Neuropsychiatric disorders in Cushing disease



www.irtces.com

**Mood lability, anxiety, irritable
impatience, depression, flight of ideas**



www.medexpressrx.com



evolvingyogi.com



www.inotel.org

Marion Sulzberger MD

“You must be kind and patient even with those who are over demanding, unreasonable, even antagonistic.

Remember that those attitudes are signs of illness and often the result of fear, anxiety, or ignorance. It is part of a doctor’s job to handle and assuage these too.”

Marion Sulzberger MD

“Every patient who comes to us is in trouble. Whether the complaint seems serious or trivial to you, it is serious to the patient and deserves your full attention and your best efforts. You may have just seen ten patients with more grave or more interesting skin diseases, but to the patient you are now examining his trouble is the most important in the world at that moment.”

Thank You