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**Case 20 (July 08 2010):** [N Engl J Med. 363\(2\):178-186](#)

**1<sup>st</sup> Presentation:**

**Demographic:** Female, 28 yrs, Not pregnant, North America

**Clinical features extracted from the case and entered into the query box:**

oligomenorrhea  
infertility

**Synonyms used by Isabel for the above query:**

oligomenorrhea  
infertility

**STOP !**

**Before you read further you might want to construct your own:**

- Final diagnosis

**In the following section you will find:**

- The final diagnosis of the case
- Did Isabel suggest the final diagnosis

**Final Diagnosis of the case according to NEJM:**

- (i) Acromegaly
- (ii) Pituitary adenoma

**Was the final diagnosis given by Isabel:**

Yes, Acromegaly and pituitary adenoma under pituitary neoplasms in Endocrine

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### Isabel Differential:

**enter clinical features** | synonyms

age\*

gender  female  male

pregnancy

Refine search:

travel history:

show me:

diagnoses

causative drugs

bioterrorist agents

Enter clinical features, no negatives, no numbers: ⓘ

+ add a clinical feature

**get checklist** >

clear search

Isabel is not meant to replace your clinical judgment.

**diagnoses**

**Most Relevant**

sort by: most relevant | action: -select-

show: 10 20 30 all

Polycystic Ovarian Syndrome	♀ ? GYNE
Uterine Neoplasms	♀ ? GYNE
Pituitary Neoplasms	○ ENDO
Pituitary Adenoma	
Acromegaly	
<b>Why did this diagnosis come up ?</b> ⓘ	
We matched the terms: oligomenorrhea   oligomenorrheic   infertility   infertile	
Degree of match between query entered and Isabel database (Not clinical probability): 87%	
Endometriosis	♀ ? GYNE
Isolated Deficiency of Gonadotropins	? ENDO
Congenital Adrenal Hyperplasia	? ENDO
Cushing's Syndrome	? ENDO
Hyperthyroidism	? ENDO
Pelvic Inflammatory Disease	♀ ? GYNE
Hashimoto's Thyroiditis	? ENDO

### 2<sup>nd</sup> Presentation:

**Demographic:** Female, 32 yrs, Not pregnant, North America

### Clinical features extracted from the case and entered into the query box:

acne  
 facial hair growth  
 persistent frontal headaches  
 nasal discharge  
 decreased libido  
 hot flashes  
 palpitations  
 amenorrhea  
 floaters in vision  
 chronic back pain and stiffness  
 weight gain  
 snoring  
 fatigue  
 daytime somnolence  
 acanthosis nigricans



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***Synonyms used by Isabel for the above query:***

acne  
facial hair growth  
nasal discharge  
decreased libido  
hot flashes  
palpitations  
amenorrhea  
floaters in vision  
weight gain  
snoring  
fatigue  
daytime somnolence  
acanthosis nigricans

**STOP !**

**Before you read further you might want to construct your own:**

- Complete differential diagnosis
- Final diagnosis

**In the following section you will find:**

- The differential diagnosis constructed by the MGH panel
- The final diagnosis of the case
- Which of the MGH panel differential diagnoses did Isabel contain
- Did Isabel suggest the final diagnosis

***Differential Diagnoses considered by the MGH panel:***

Polycystic ovary syndrome

***Final Diagnosis of the case according to NEJM:***

Acromegaly and Pituitary adenoma

***Differential Diagnoses of the case as given by Isabel:***

Polycystic ovary syndrome in Gynecology

***Was the final diagnosis given by Isabel:***

Yes, Acromegaly and Pituitary adenoma under pituitary neoplasms in Endocrine

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### Isabel Differential:

**enter clinical features** | synonyms

age\*

gender  female  male

pregnancy

**Refine search:**

travel history:

**show me:**

diagnoses

causative drugs

bioterrorist agents

Enter clinical features, **no negatives, no numbers:**

- acne
- facial hair growth
- persistent frontal headaches
- nasal discharge
- decreased libido
- hot flashes
- palpitations
- amenorrhea
- floaters in vision
- chronic back pain and stiffness
- weight gain
- snoring
- fatigue

**diagnoses**

**Most Relevant**

sort by: most relevant | action: -select-

show: 10 20 all

Polycystic Ovarian Syndrome	♀	? GYNE
<input checked="" type="checkbox"/> Pituitary Neoplasms		<input type="radio"/> ENDO
<ul style="list-style-type: none"> <li>Pituitary Adenoma</li> <li>Acromegaly</li> </ul>		
<p><b>Why did this diagnosis come up ?</b></p> <p>We matched the terms: hirsutism   hirsute   hirsutes   hirsuties   decreased libido   decreased sexual interest   hot flashes   hot flash   amenorrhea   amenorrhic   fatigue   frontal   headach   headaches   pain</p> <p>Degree of match between query entered and Isabel database (Not clinical probability): 56%</p>		
<input checked="" type="checkbox"/> Renal Failure		? NEPHRO
Lyme Disease		? INFEC
Sinusitis		? RESP
<input checked="" type="checkbox"/> Sleep Apnea		? RESP
Hirsutism	♀	? GYNE
Hyperthyroidism		? ENDO
HAIRAN Syndrome	♀	? GYNE
Cushing's Syndrome		? ENDO