

Interhospital Conference Case 2

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A 24-year-old female

Generalized,
ill-defined depressed
areas on trunk and
extremities for 2 years





May 2015

Dx: SLE (Malar rash, polymyalgia, alopecia, ANA 1:1280)

Rx:

prednisolone 60 mg/day HCQ 200 mg/day



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Rx:

↓prednisolone2.5 mg/day



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Rx: observe

Developed ill-defined depressed areas on upper extremities



May 2015

Sep 2015

Nov 2017

Jan 2020

Dx: SLE (Malar rash, polymyalgia, alopecia, ANA 1:1280)

Rx:

prednisolone 60 mg/day HCQ 200 mg/day Disease stable

Rx:

↓ prednisolone

2.5 mg/day

Developed ill-defined depressed areas on upper extremities

Rx: observe

Dermatological consultation

Progressive lesions on trunk and extremities



Past history

- Underlying disease
 - ♦ Stable SLE
- Current medications
 - ♦ Prednisolone 2.5 mg/day
 - ♦ Folic acid 5 mg/day



Physical examination

• Vital signs: BT 36 °C BP 120/80 mmHg

HR 70 bpm RR 20 /min

BW 60 kg, Ht. 165 cm (BMI 23 Kg/m2)

HEENT: no pale conjunctivae, anicteric sclerae

Heart & lungs: WNL

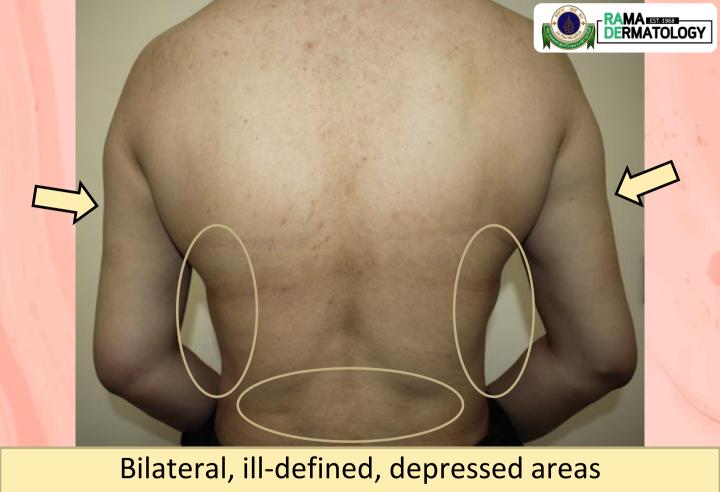
Abdomen: no hepatosplenomegaly

Dermatological examination



Bilateral, ill-defined, depressed areas

on both arms and trunk



on both arms and trunk



Ill-defined, depressed areas on abdomen



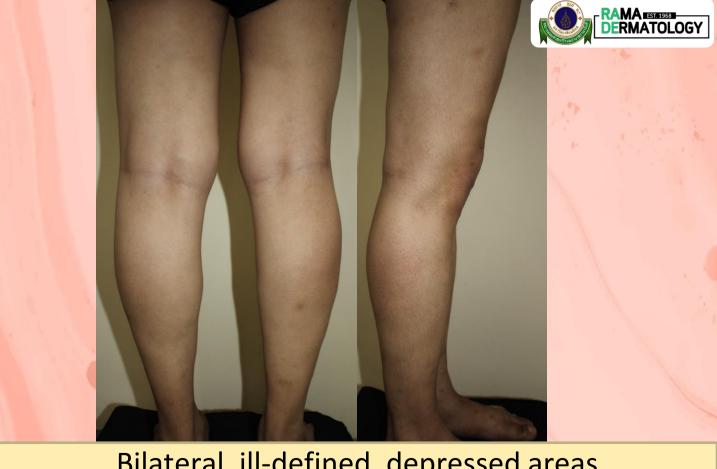
Ill-defined, depressed areas on abdomen



Bilateral, ill-defined, depressed areas on buttock



Bilateral, ill-defined, depressed areas on buttock



Bilateral, ill-defined, depressed areas

on both thighs and legs



Bilateral, ill-defined, depressed areas

on both thighs and legs



Problem list

- Acquired, generalized, depressed areas for 2 years
- 2. Stable SLE



Differential diagnosis

Acquired, generalized, depressed lesions

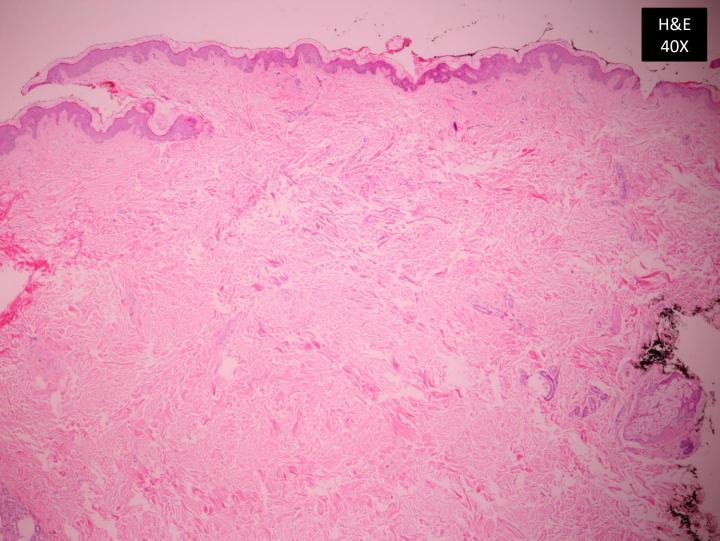
Inflammation

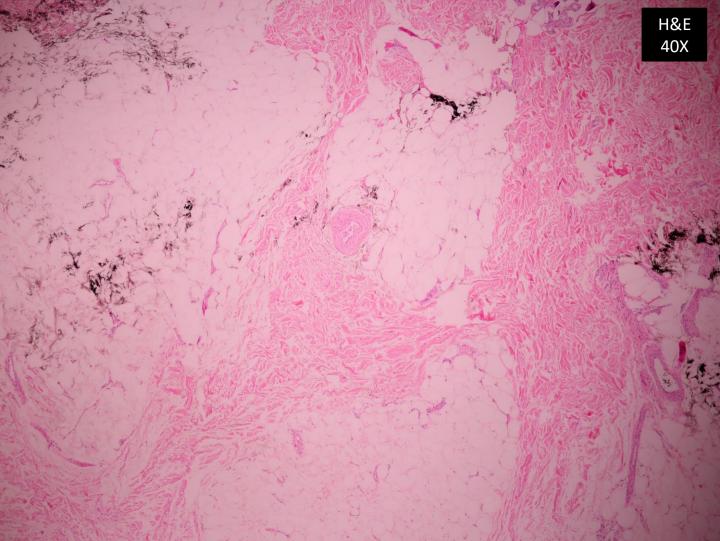
- Lipodystrophy syndromes
- Lupus panniculitis
- Subcutaneous morphea

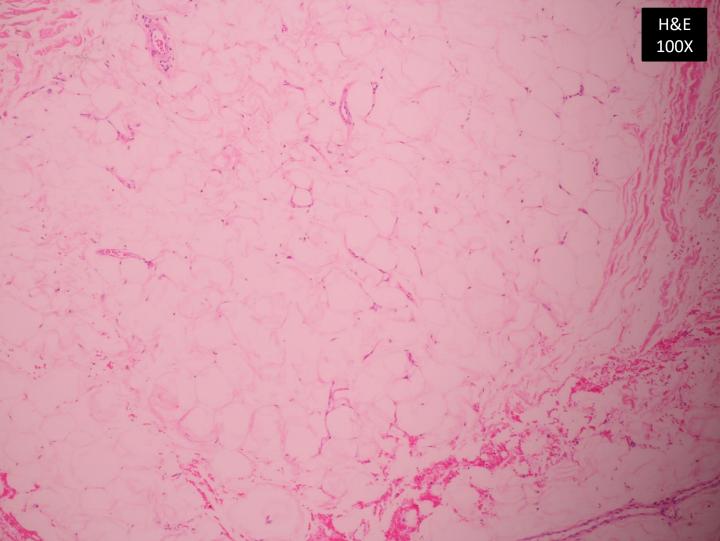
Infection

Infectious panniculitis

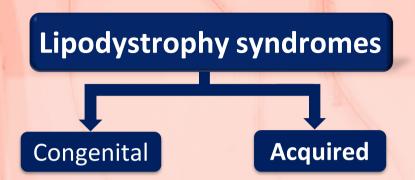


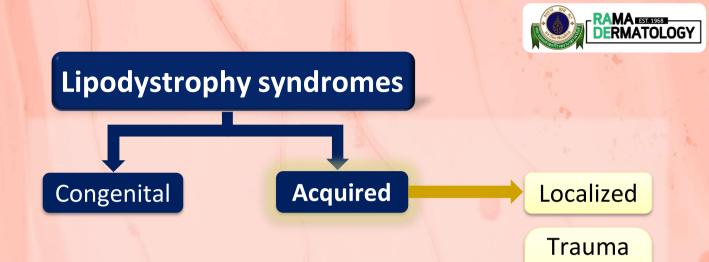






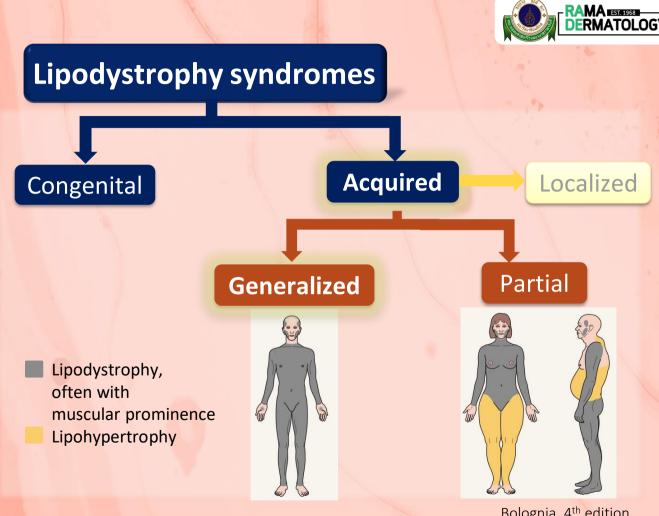






Injection

Pressure



Bolognia, 4th edition.



MRI of forearms



 Mild inflammatory process at subcutaneous tissue of both forearms



MRI of forearms



No muscular dystrophy



Investigation

- Liver and renal function tests
- Lipid profiles
- Serum glucose
- Serum uric acid

WNL



Acquired generalized lipodystrophy or Lawrence syndrome



Epidemiology

- Rare condition ~80 cases until now
- Childhood to adolescence
- F:M 3:1



Etiology and pathogenesis

- Unknown
- 25% have a preceding panniculitis
- Localized

 generalized fat loss



Locations of fat loss

Common

Large areas of face, trunk, and extremity



Uncommon

Palms, soles, and intraabdominal regions



Not found

Bone marrow and retroorbital fat



Bolognia, 4th edition. Fitzpatrick, 9th edition. Medicine (Baltimore). 2003;82:129-146.



Subtypes

- Type 1: panniculitic variant (25%)
- Type 2: autoimmune variant (25%)
- Type 3: idiopathic (50%)



Complications

- Severe hepatic steatosis and fibrosis
 - ♦ A significant cause of death
- Diabetes mellitus
 - ♦ Latency period ~ 4 years
- Hypertriglyceridemia
- Proteinuric nephropathy



Prognosis

- Severe metabolic complications
- ↑ Risk of peripheral T-cell lymphoma
- Panniculitis-associated variety
 - ♦ Severe fat loss
 - ♦ Metabolic complications





Suggested investigation

- Serum chemistry profiles
 - ◆ Glucose

♦ Lipids

♦ Liver enzymes

♦ Uric acid

Insulin resistance



Suggested investigation

- Serum leptin
 - ♦ Low level
 - ◆ Guide treatment decisions
 - (metreleptin replacement therapy)
- Skin biopsy



Special tests

- Skinfold thickness
 - ♦ Anthropometry
- Body fat distribution
 - ◆ Dual X-ray absorptiometry
 - **♦** MRI



Management

- No specific treatment
- Reassure
- 2. Supportive treatments
 - ♦ Cosmetic surgery
- 3. Management and surveillance of complications



Our case

- 3 subtypes
 - ♦ Type 1: panniculitic (25%)
 - ♦ Type 2: autoimmune (25%)
 - ♦ Type 3: idiopathic (50%)



Type 2: autoimmune variety

Organ-specific autoimmunity

Type 1 diabetes mellitus

Autoimmune hepatitis

Systemic autoimmune diseases

Juvenile dermatomyositis

Juvenile idiopathic arthritis

Sjogren syndrome

Bolognia, 4th edition. Fitzpatrick, 9th edition.



Case summary

- A 24 y/o female with SLE
- CC: Generalized depressed areas on trunk and extremities for 2 years
- Dx: Acquired generalized lipodystrophy or Lawrence syndrome
- Treatment: Denied lipofilling
- Plan: Surveillance of complications





Take home message

Acquired generalized lipodystrophy (Lawrence syndrome)

Associated with autoimmune diseases

Surveillance of metabolic complication is suggested