

Uncertain skin ulcers

or wrong priorities...

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Clinical case

- ▶ Patient J. K., female, 29 years old.
- ▶ Came to emergency in October 2016.
- ▶ Complaints:
 - ▶ Multiple ulcerations on the legs;
 - ▶ Periodically the temperature till 37.5°C;
 - ▶ Weakness.



Initial inspection at emergency department

- ▶ Multiple eruptions, as well as purulent ulcerations on the legs





Which tests would you perform?

Examination results

Tests performed in ED

- ▶ Moderate hypochromic microcytic anemia (9.1 g/dL)
 - ▶ Hgb: 11.9 - 15.7 g/dL
- ▶ Leucocytosis (Leu – $18.6 \times 10^9/L$, Neu – $14.8 \times 10^9/L$)
 - ▶ Leu: $4.6 - 8.4 \times 10^9/L$; Neu: $2.0 - 9.1 \times 10^9/L$
- ▶ CRP -13.8 mg/L
 - ▶ CRP < 5.0 mg/L
- ▶ ALAT, AsAT, urea, creatinine, glucose, bilirubins, lipase, AF, electrolytes, protein - normal

- ▶ Abdominal USG - no pathologic findings

- ▶ Consulting dermatologist's conclusion – *pyoderma cruris chronica*
ecthyma et ulceri cruris, folliculitis corporis



Maybe something else?

- ▶ Watery pasty diarrhea 6-8 times per day **since 2014**;
- ▶ Blood in stool;
- ▶ Nagging spastic pain before and after defecation

- ▶ Never complained about it



Differential diagnosis

- ▶ Immunocompromised patient?
 - ▶ Chronic gastroenteritis;
 - ▶ Cutaneous manifestations of HIV;
 - ▶ Lifestyle.
- ▶ Hematological/oncological diseases?
 - ▶ Lymphoma;
 - ▶ Paraneoplastic syndrome.
- ▶ Vasculitis?
 - ▶ Granulomatosis with polyangiitis
- ▶ Superficial thrombophlebitis?
- ▶ *Corynebacterium diphtheriae*??? (But not a refugee/traveller)

- ▶ Inflammatory bowel syndrome?



Further specific examination

- ▶ *HbsAg* - negative (0,17 s/co),
- ▶ Antibodies to *HCV* - negative (0,1 s/co),
- ▶ Anti-Treponema pallidum *IgG* / *IgM* - negative (0,04 s/co),
- ▶ Antibodies to *HIV 1*, *HIV 2*, *HIV 1 Ag* - negative

- ▶ antiPR3 (c-ANCA), antiMPO (p-ANCA)- negative,
- ▶ Anti transglutaminase Ig A-0,1, Anti transglutaminase Ig G- 0,9.

- ▶ Skin ulcers: *growing group A β -hemolytic streptococci*,
Staphilococcus aureus



Waiting for answers...

- ▶ *Cl. difficile*
- ▶ *Salmonella*
- ▶ *Shigella*
- ▶ *Faecal Mycobacterium tuberculosis DNS*

Truelove and Witts score

Table 1.3 Disease activity in ulcerative colitis, adapted from Truelove and Witts.

	Mild	Moderate 'in between mild and severe'	Severe
Bloody stools/day	<4	4 or more <i>if</i>	≥ 6 <i>and</i>
Pulse	<90 bpm	≤ 90 bpm	>90 bpm <i>or</i>
Temperature	<37.5 °C	≤ 37.8 °C	>37.8 °C <i>or</i>
Haemoglobin	>11.5 g/dL	≥ 10.5 g/dL	<10.5 g/dL <i>or</i>
ESR or CRP	Normal	≤ 30 mm/h or ≤ 30 mg/L	>30 mm/h <i>or</i> >30 mg/L

- ▶ Start therapy with: 5-aminosalicylic acid + antibiotics

Further specific examination

- ▶ Calprotectin - >1000 mkg/g;
- ▶ Colonoscopy:
 - ▶ Pan-ulcerative (total) colitis, exacerbation;
- ▶ Biopsy:
 - ▶ Histopathological picture corresponds to ulcerative colitis.



Diagnosis

- ▶ Total ulcerative colitis, primary diagnosed, exacerbation (Mayo 9). E3 S3 (Montreal classification).
- ▶ *Pyoderma gangrenosa cruris chronica et ulceri cruris, folliculitis corporis.*
- ▶ Moderate hypochromic microcytic anaemia.

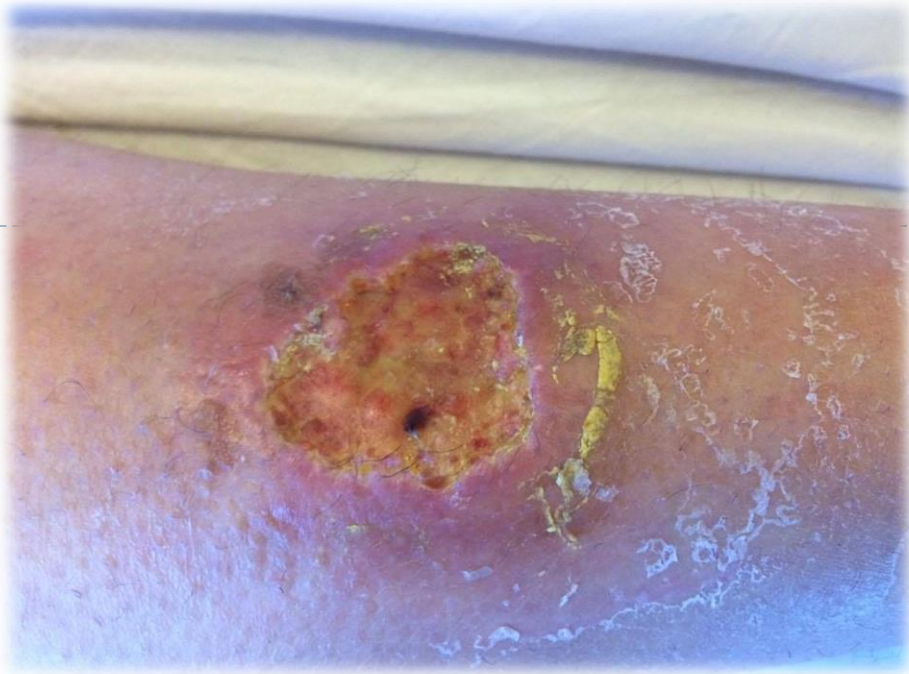


Management

- ▶ After prescribed complex therapy with
 - ▶ 5-aminosalicylic acid (Sulfasalazin),
 - ▶ antibiotics,
 - ▶ i/v iron,
 - ▶ local treatment of skin ulcers,

patient's condition progressively improved, remission was gained.





Background

- ▶ Ulcerative colitis is a form of inflammatory bowel disease that is characterised by superficial inflammation and ulceration of the large intestine.
- ▶ The incidence of UC is 1.2 to 20.3 cases per 100,000 and its prevalence is 7.6 to 246.0 cases¹.
- ▶ Extraintestinal symptoms may involve virtually any organ system with a potentially detrimental impact on the patient's functional status and quality of life².

¹Silvio Danese, M.D., and Claudio Fiocchi, M.D. *Engl J Med* 2011; 365:1713-1725. November 3, 2011 DOI: 10.1056/NEJMra1102942

²Vavricka, Stephan R. et al. "Extraintestinal Manifestations of Inflammatory Bowel Disease." *Inflammatory Bowel Diseases* 21.8 (2015): 1982–1992. *PMC*. Web. 14 Dec. 2016.

Extraintestinal symptoms

Manifestations (EIM)

- ▶ **Joints**
 - ▶ Arthropathies
- ▶ **Skin**
 - ▶ Erythema nodosum
 - ▶ Pyoderma gangrenosum etc.
- ▶ **Hepatobiliary tract**
 - ▶ Primary sclerosing cholangitis
- ▶ **Eye**
 - ▶ Episcleritis
 - ▶ Uveitis

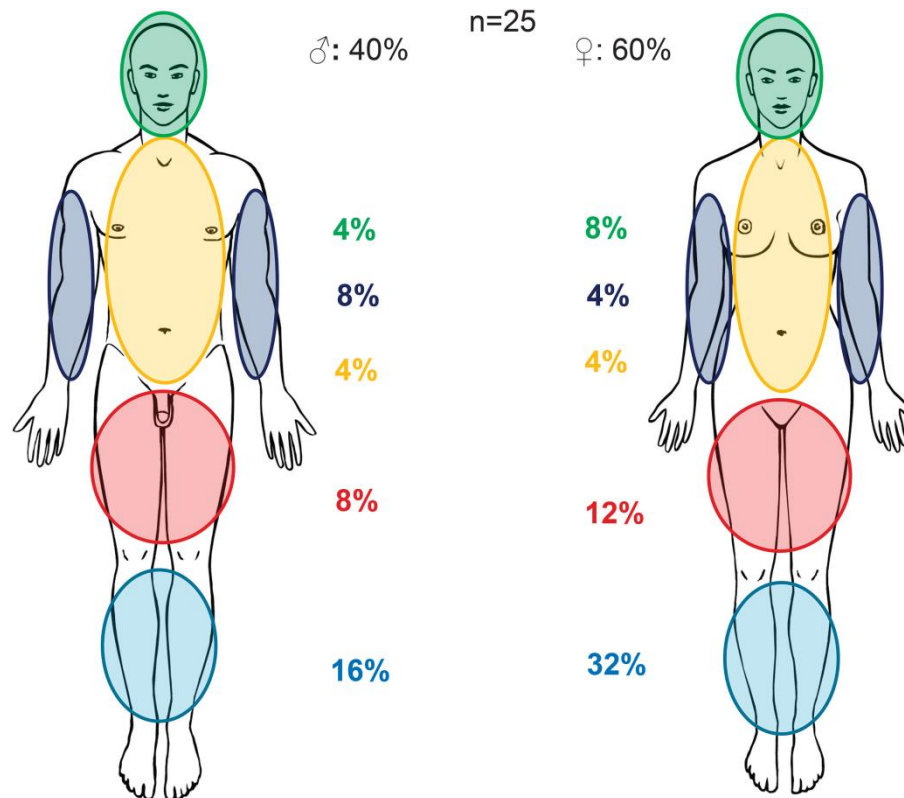
Complications (EIC)

- ▶ **Caused by the disease itself**
 - ▶ Malabsorption;
 - ▶ Micronutrient deficiency;
 - ▶ Osteoporosis;
 - ▶ Peripheral neuropathies;
 - ▶ Kidney stones;
 - ▶ Drug-related side effects.



EIM of the skin

- ▶ Skin disorders represent 2nd most common EIM of IBD after arthritis and affect about 5-15% of these patients.
- ▶ ***Pyoderma gangrenosum*** is a much rarer, more severe, debilitating EIM, more common in UC than in CD.



Results and discussion

- ▶ The cornerstone of management of UC exacerbation remains the use of corticosteroids, which are effective in the induction of remission in the majority of cases¹.
- ▶ According to Truelove and Witts criteria, this case was evaluated as moderate-to-severe.
- ▶ It was decided to start therapy without use of steroids, which nevertheless gave very successful results.

¹Glen A Doherty; Adam S Cheifetz Expert Rev Gastroenterol Hepatol. 2009;3(4):395-405.

Take home message

- ▶ Spend more time on collecting anamnesis



Thank you for attention!



References

- ▶ Silvio Danese, M.D., and Claudio Fiocchi, M.D. *Engl J Med* 2011; 365:1713-1725. November 3, 2011 DOI: 10.1056/NEJMra1102942
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