



Case 1

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Tropical Medicine

28 year old British soldier with lesion on leg for 3 months, starting in Belize

Lesion itching

Mild pain

No response
to flucloxacillin

No other symptoms

General examination normal



Where is Belize? (choose one)

1.

2.

3.

4.

5.



Where is Belize? (choose one)

1. Mexico
2. Belize
3. Guyana
4. Peru
5. Brazil



What is the most likely diagnosis?

Choose one

1. infected insect bite
2. cutaneous myiasis
3. cutaneous leishmaniasis
4. *Dracunculus medinensis*
5. cutaneous larva migrans

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Video



What is the most likely type of myiasis?

Choose one

1. *Cordylobia anthropophaga*
2. *Cochliomyia hominivorax*
3. *Dermatobia hominis*
4. *Wohlfartia magnifica*
5. *Musca domestica*

What is the most likely type of myiasis?

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3. ***Dermatobia hominis***
4. *Wohlfartia magnifica*
5. *Musca domestica*

Tumbu fly

*Cordylobia
anthropophaga*

Lays eggs on
clothes etc

Africa





Tumbu (or putzi or mango) fly
Cordylobia anthropophaga

Tumbu fly



How would you treat him?

1. squeeze it out
2. suffocate with petroleum jelly
3. dig it out with a needle
4. suck it out with vacuum pump
5. minor surgery

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Surgery was required



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Dermatobia hominis

“Human botfly”

Central & S America

Transferred by mosquitoes when biting

May be removed after occlusion, but often need surgery

Video images on web: Marty FM, Whiteside KR *NEJM* 2005; 352:e21

Review: Maier H, Honigsmann H. *Am Acad Dermatol* 2004; 50 (Suppl 2): S25-30

LOOK WHAT CAME INTO MY HEAD

Op for worm victim Lee

EST: Bacon didn't cure Lee's worm problem

EXCLUSIVE

By STEVE DENNIS

THIS is the jungle worm inside soldier Lee Miller's head.

Last night it was still so hard to bulge, doctors were preparing to operate in a bid to wriggle it out.

And last night Lee Miller's picture in the paper was in emerging form. In yesterday's Mirror, said, "I wasn't bothered by what looks like I want it out as quickly as possible. It makes my head ache."

The worm which can grow up to one-inch long is a bot fly larva.

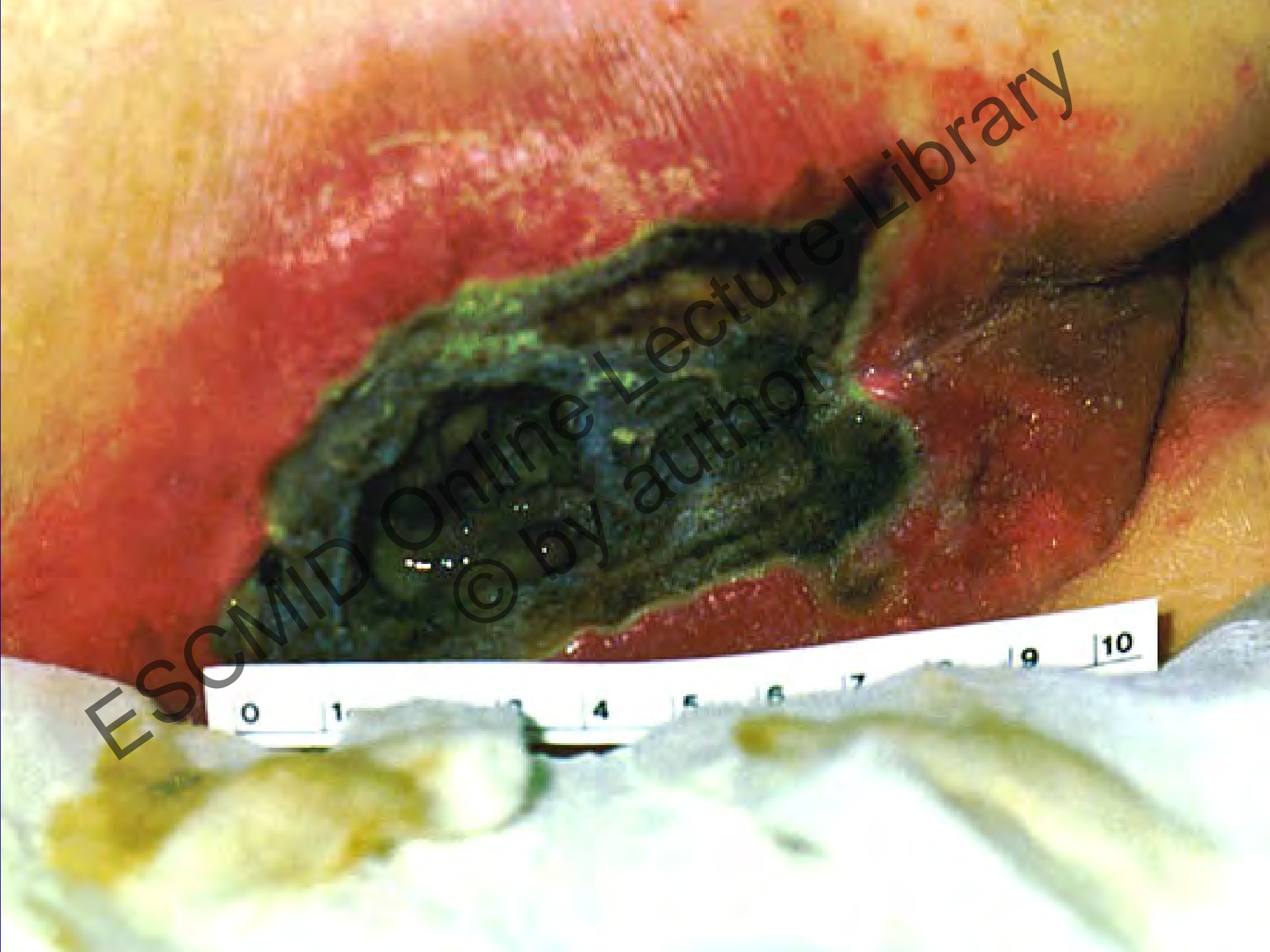
UGH! Bot-fly larva gave soldier Lee the creepy-crawlies



“Botfly”
Dermatobia hominis
 Central & S America

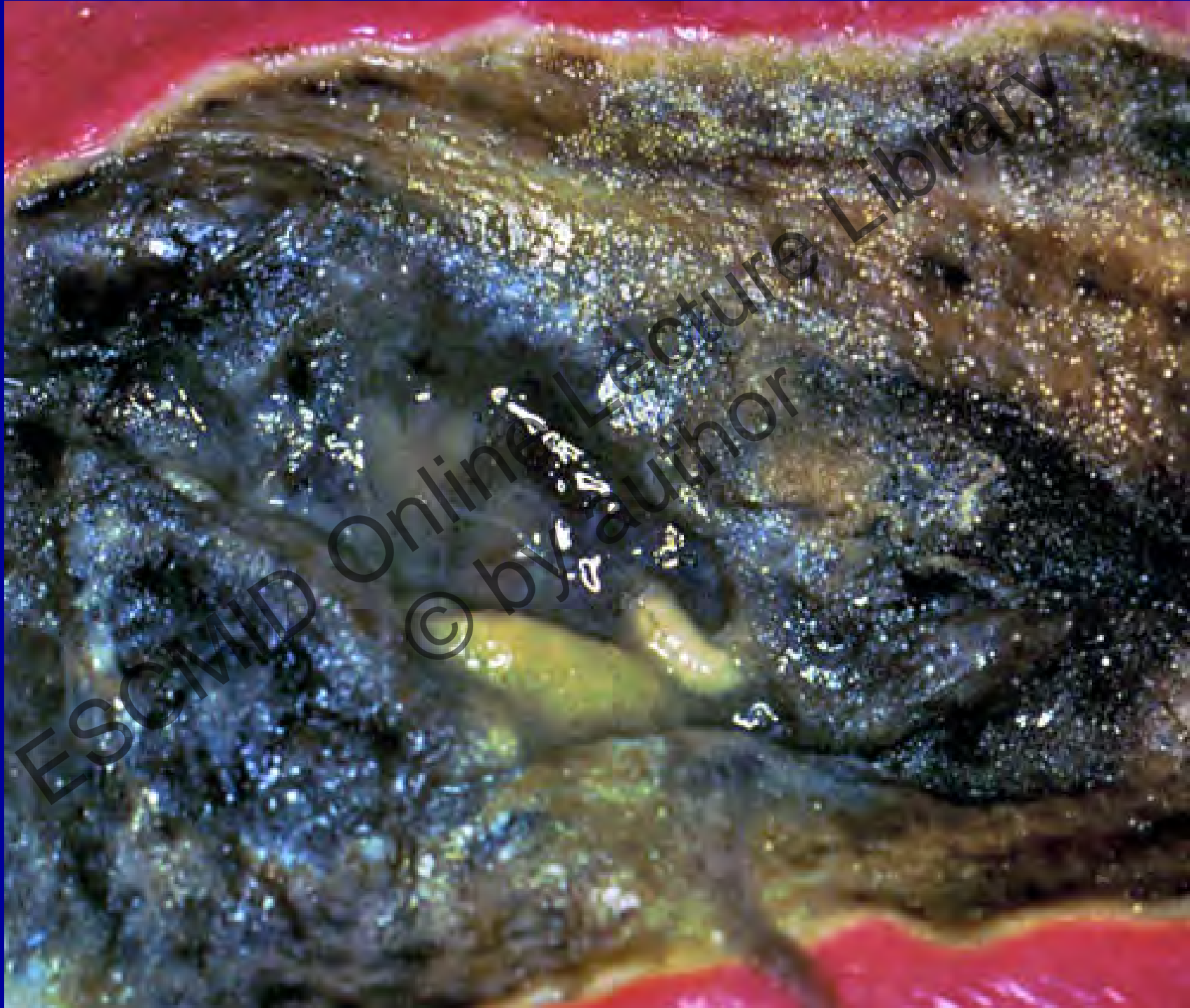


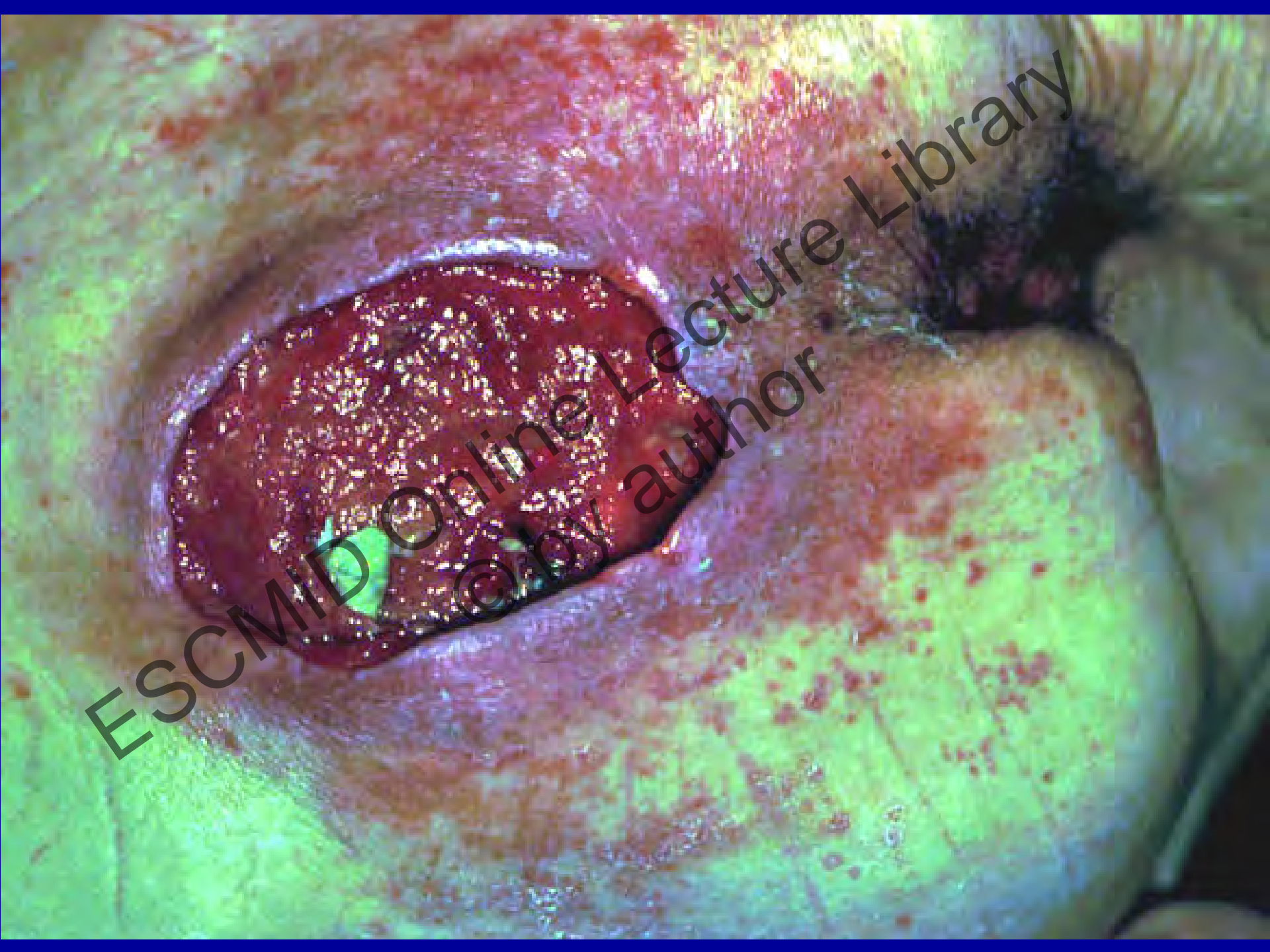
***Cochliomyia hominivorax* Venezuela**



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Myiasis

- Tumbu fly Africa
- Botfly S & C America
- Screw-worms S America etc
- Facultative (various) – wounds everywhere

Learning points

- Skin lesions resembling boils from tropics may be cutaneous myiasis
- African myiasis (“Tumbu fly”) is usually easy to remove after suffocation
- Central and South American “botfly” can remain for longer and may require surgery
- Do not dig around inside lesions
- Ivermectin may be useful

References

- Sherman RA . Wound myiasis in urban and suburban United States. *Arch Intern Med* 2000;160: 2004–14
- Yuca K, *et al.* Aural myiasis in children and literature review. *Tohoku J Exp Med* 2005;206:125 – 30
- Gealh WC, *et al.* Treatment of oral myiasis caused by *Cochliomyia hominivorax* : two cases treated with ivermectin. *Br J Oral Maxillofac Surg* 2009;47: 23–6 .
- Whitaker IS, *et al.* Larval therapy from antiquity to the present day: mechanisms of action, clinical applications and future potential . *Postgrad Med J* 2007;83:409 – 13 .
- McGraw TA, *et al.* Cutaneous myiasis. *J Am Acad Dermatol* 2008;58:907– 26.