

INFECCIÓN DE PIEL Y PARTES BLANDAS

DRA CRISTINA MARTÍN GÓMEZ
U. ENFERMEDADES INFECCIOSAS/MED. INTERNA

IMPÉTIGO

CELULITIS Y
ERISPELA

INFECCIÓN
NECROTIZANTE

PIE DIABÉTICO
INFECTADO

MORDEDURA
HUMANA O
ANIMAL

INFECCIÓN DE
HERIDA EXPUESTA
A AGUA
CONTAMINADA

INFECCIÓN DE
HERIDAS TRAS
MANIPULAR
CARNE O PESCADO

INFECCIÓN
PROFUNDA DE
HERIDA
QUIRÚRGICA

INFECCIÓN
ÚLCERA POR
PRESIÓN/SEPSIS

INFECCION DE
HERIDA POR
PUNCIÓN EN
PLANTA DE PIE

**CELULITIS Y
ERISPELA**

**INFECCIÓN
NECROTIZANTE**

**PIE DIABÉTICO
INFECTADO**

**INFECCIÓN
ÚLCERA POR
PRESIÓN**

IMPÉTIGO

CELULITIS Y
ERISPELA

INFECCIÓN
NECROTIZANTE

PIE DIABÉTICO
INFECTADO

MORDEDURA

INFECCIÓN DE
HERIDA EXPLORADA

INFECCIÓN DE
HERIDA TRAUMÁTICA

INFECCIÓN
PROFUNDA DE
HERIDA

<https://www.saludcastillayleon.es/CAZamora/es/comisiones-hospitalarias/grupo-proa-za>

ANIMAL

CONTAMINADA

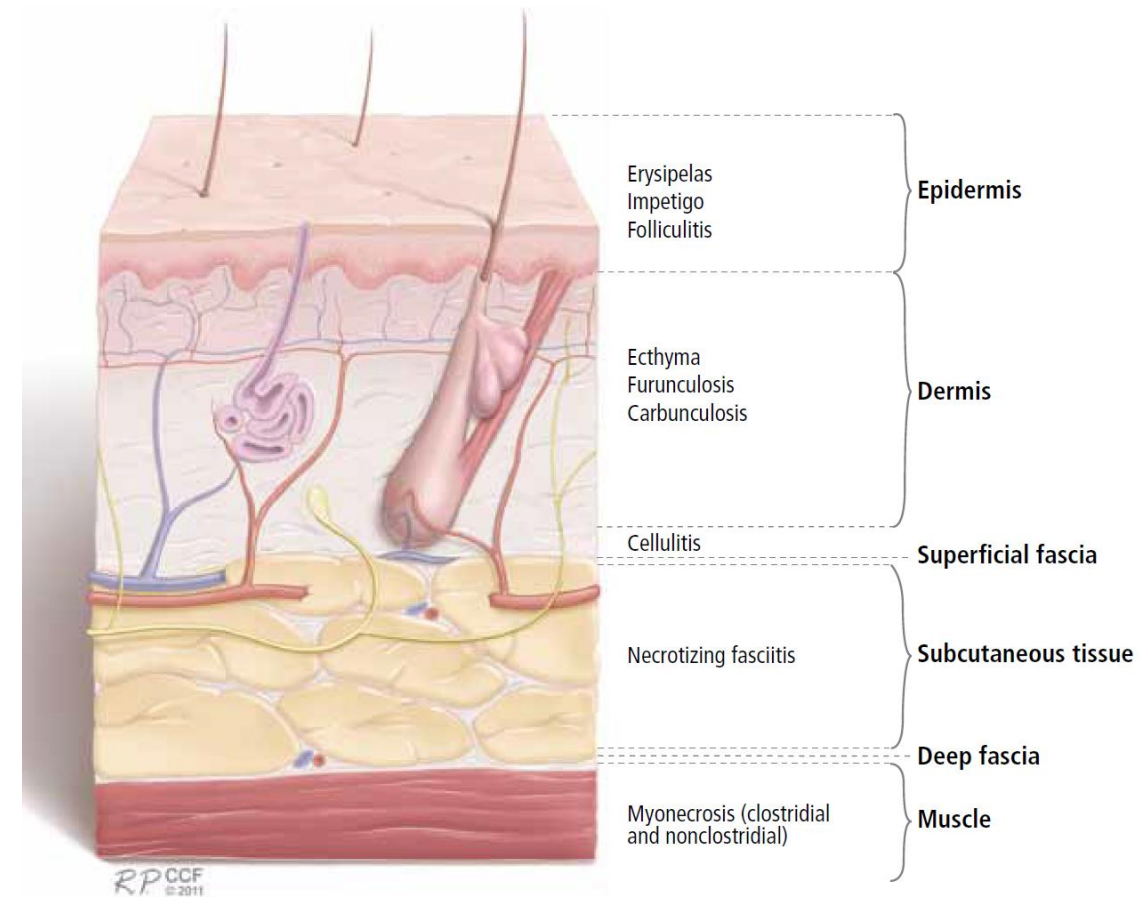
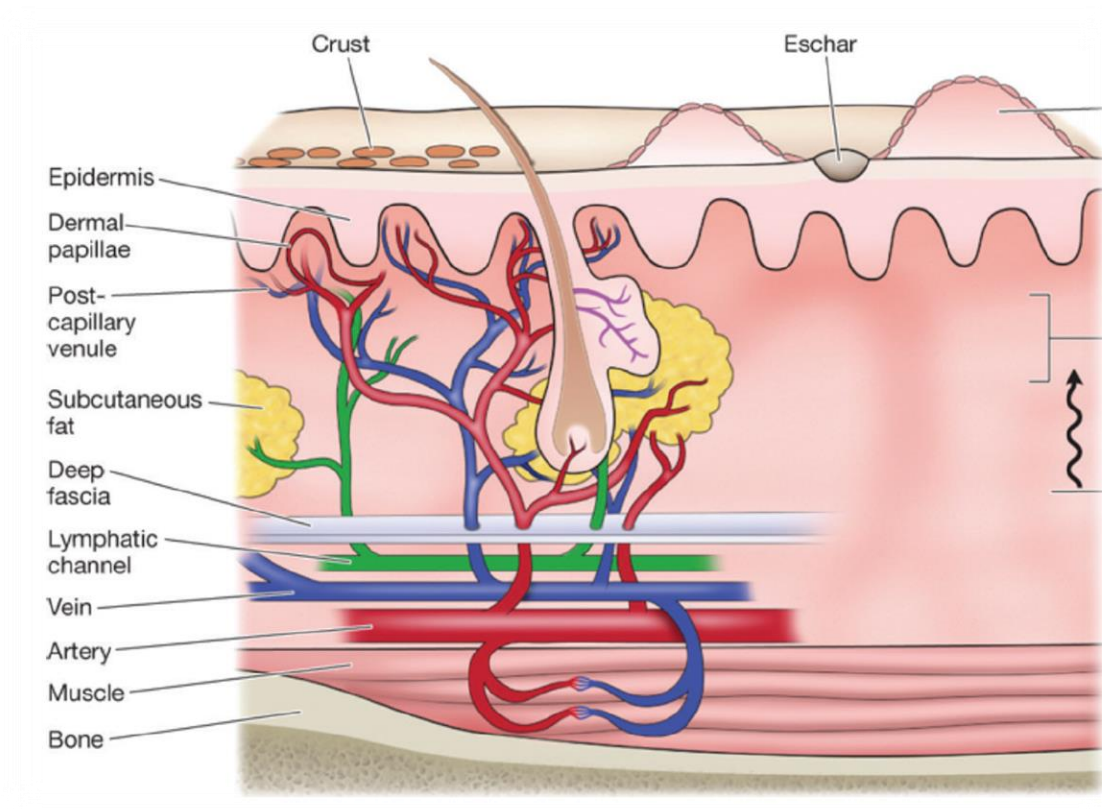
CARNE O PESCADO

QUIRÚRGICA

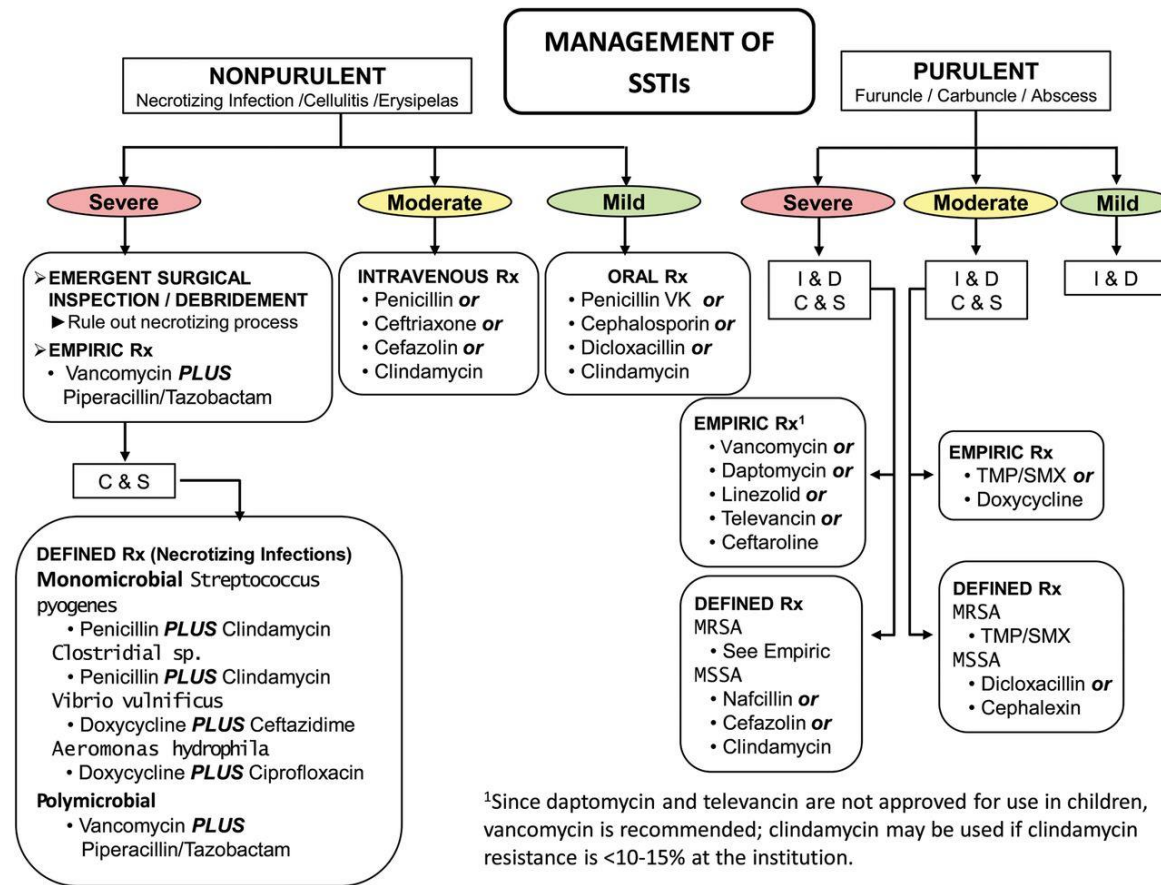
INFECCIÓN
ÚLCERA POR
PRESIÓN/SEPSIS

INFECCION DE
HERIDA POR
PUNCIÓN EN
PLANTA DE PIE

CLASIFICACIÓN



CLASIFICACIÓN



DE FORMA GENERAL...

- Incidencia: 200/100.000 pacientes/año.
- Más frecuentes en edad media o avanzada.
- Gérmenes Gram positivos (*Streptococcus spp.* *Staphylococcus spp.*).
- Forma más grave: infección necrotizante.

- Criterios de gravedad de ERON

- Criterios de ingreso hospitalario:

- Clasificación ERON 3 ó 4.
- Imposibilidad de tratamiento vo.
- Rápida progresión de los síntomas.
- No mejoría tras tratamiento ambulatorio.
- Proximidad de la infección con material protésico.
- Inmunodepresión severa.
- Problema grave de seguimiento.

Criterios de ERON

- 1.- Pacientes afebriles y con buena situación.
- 2.- Enfermos con fiebre, escasa repercusión sistémica y sin comorbilidades
- 3.- Toxicidad sistémica, comorbilidad y/o compromiso local de la extremidad.
- 4.- Sepsis, infecciones graves como fascitis necrotizante.

**CELULITIS Y
ERISPELA**

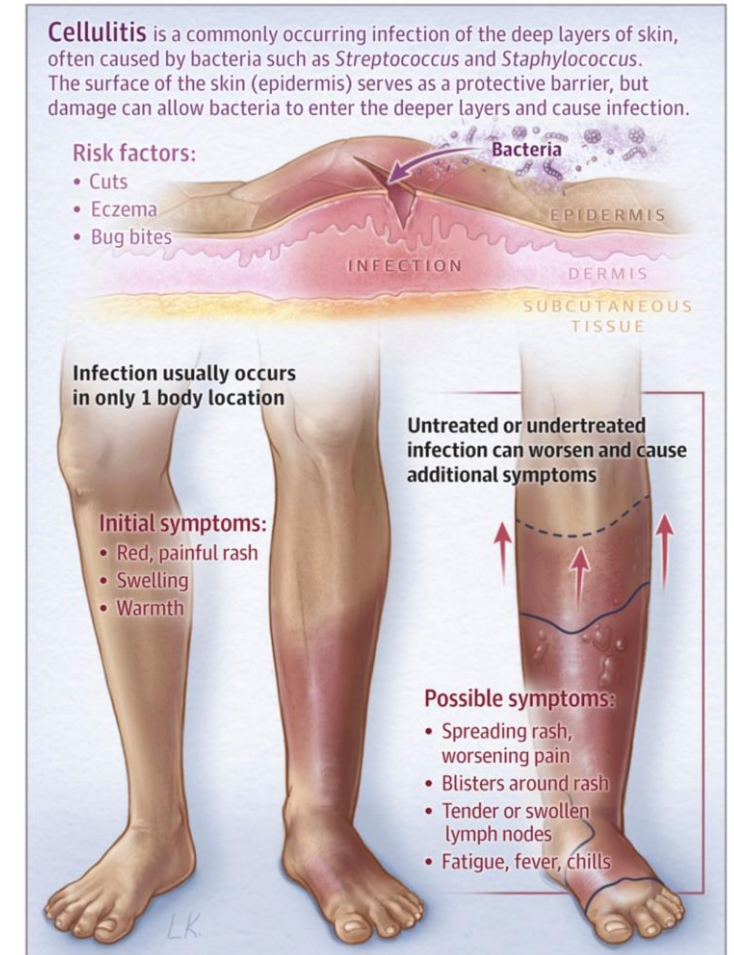
**INFECCIÓN
NECROTIZANTE**

**PIE DIABÉTICO
INFECTADO**

**INFECCIÓN
ÚLCERA POR
PRESIÓN/SEPSIS**

CELULITIS Y ERISIPELA

- *St. beta-hemolítico* (grupo A, B, C, G y F). Otros: *S. aureus*. Bacilos Gram negativos.
- Placa eritematosa, brillante, edematosa, bien delimitada en la erisipela, bordes no definidos en la celulitis. Asociada o no a linfangitis. Asociada o no a clínica sistémica.

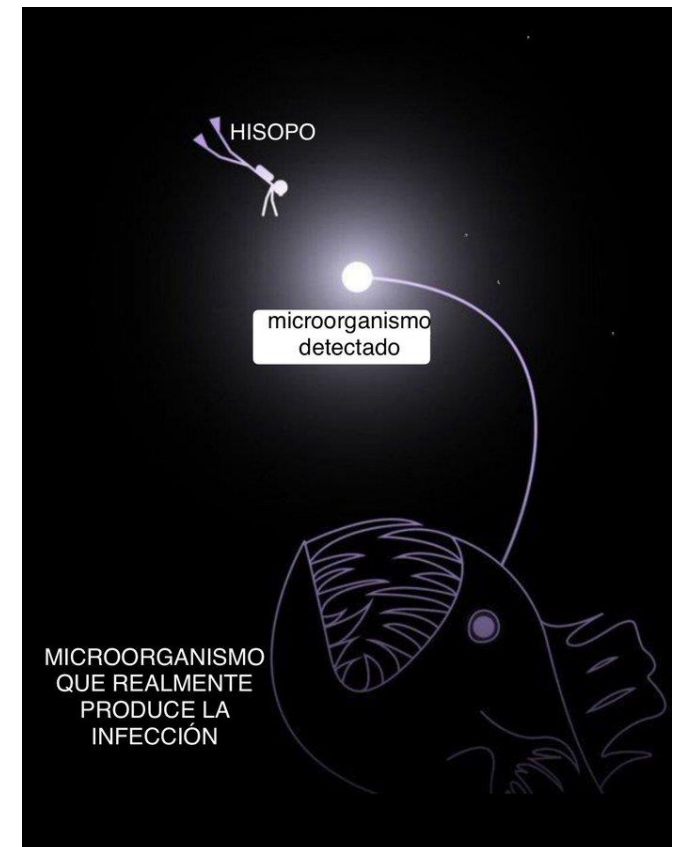


CELULITIS Y ERISIPELA

- Analítica general.
- En celulitis: cultivo punción o aspiración o biopsia (Portagerm[®]), en absceso: drenaje quirúrgico y cultivo (Portagerm[®]).
- Hemocultivos si : toxicidad sistémica, inmunodeprimidos o sospecha de multirresistencia.



Evitar recogida de muestras con torunda



CELULITIS: DIAGNOSTICO DIFERENCIAL

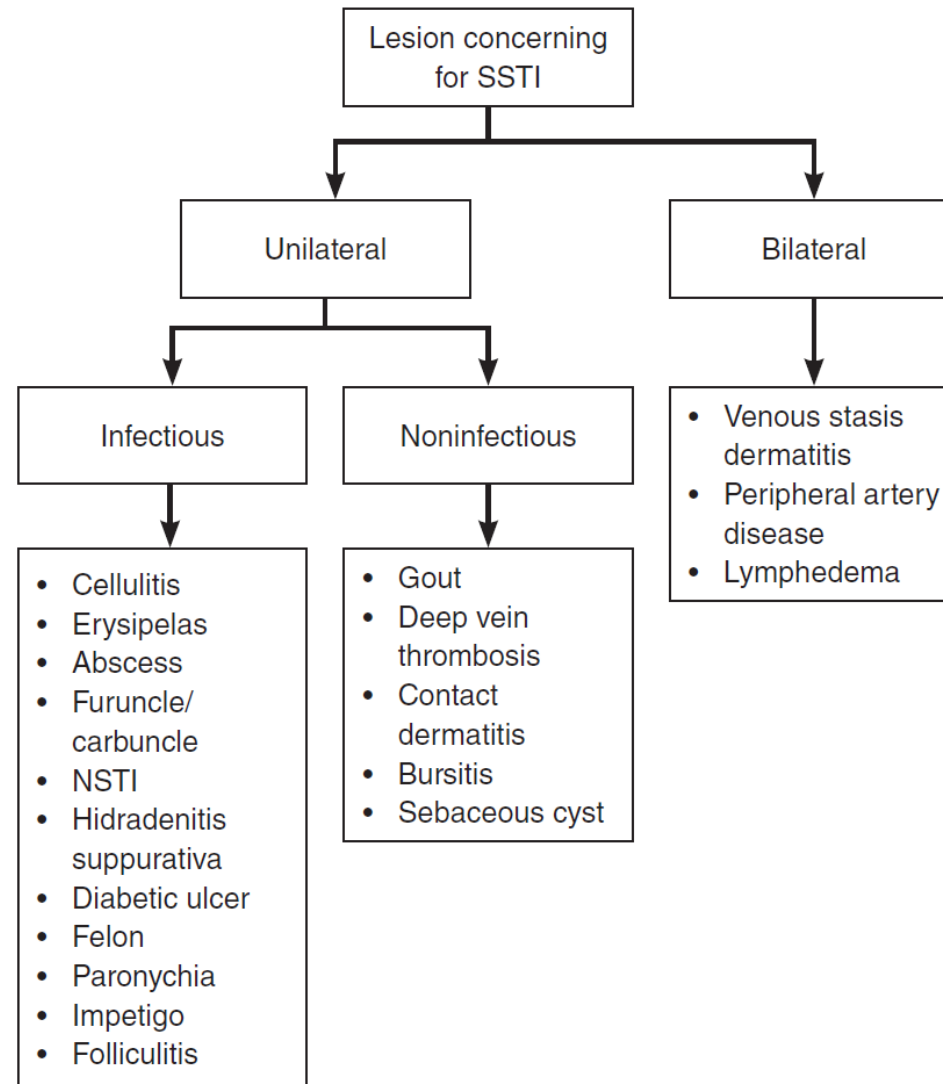
Differential Diagnoses	
Infectious	
Common	Erythema migrans, herpes simplex, herpes zoster, cutaneous abscess
Uncommon	Bacterial (eg, erysipeloid, necrotizing fasciitis); viral (eg, parvovirus B19, CMV); fungal (eg, <i>Cryptococcus neoformans</i> , <i>Sporothrix schenckii</i> , mucormycosis); mycobacterial; parasites (eg, <i>Trypanosoma cruzi</i> , <i>Dermatobia hominis</i> [myiasis]); osteomyelitis; septic joint
Inflammatory	
Common	Drug reactions; contact dermatitis; angioedema; Sweet syndrome; gout; acute bursitis; erythema nodosum
Uncommon	Fixed drug reaction; pyoderma gangrenosum; sarcoidosis; eosinophilic cellulitis (Well syndrome); relapsing polychondritis; familial Mediterranean fever; polyarteritis nodosa; panniculitis (eg, lipodermatosclerosis, morphea, eosinophilic fasciitis, traumatic, pancreatic, lupus); cutaneous GVHD
Vascular	
Common	Venous stasis dermatitis; lymphedema; deep vein thrombosis; superficial thrombophlebitis; hematoma
Uncommon	Erythromelalgia; calciphylaxis
Neoplastic	
Uncommon	Carcinoma erysipeloides; Paget disease of the breast; extramammary Paget disease; inflammatory breast carcinoma; lymphoma; leukemia
Miscellaneous	
Common	Insect bites/stings; reaction to foreign body implant (eg, metal, mesh, silicone or paraffin injections); postcutaneous injection; intravenous line infiltration
Uncommon	Compartment syndrome; radiation recall; pressure/coma bullae



Review
Cellulitis
A Review

Adam B. Raff, MD, PhD; Daniela Kroshinsky, MD, MPH

DIAGNÓSTICO DIFERENCIAL



CELULITIS Y ERISIPELA: Tratamiento

Tratamiento de elección	Tratamiento alternativo
<i>Sin sospecha de SARM</i>	<i>Sin sospecha de SARM</i>
Cefadroxilo vo 500 mg /8h. Cefazolina 1-2 gr iv /8h ó Ceftriaxona 2 gr iv /24 h + Cloxacilina 2 gr/6 h.	Clindamicina 300-600 mg /8 h vo ó Moxifloxacino 400 mg /24 h vo. Clindamicina 600 mg /8 h iv ó Vancomicina ó Linezolid 600 mg /12 h iv.
<i>Riesgo de SARM</i>	<i>Sospecha de Gran</i>
Cotrimoxazol 160/800 mg vo /12 h ó Linezolid 600 mg /12 h vo. Vancomicina iv ó Linezolid 600 mg iv /12 h ó Daptomicina 6-8 mg /kg /24 h iv.	<p>Asociación de factores de riesgo:</p> <ul style="list-style-type: none"> Colonización previa Centro socio-sanitario Uso de quinolonas o cefalosporinas en los 3 meses previos Inmigrantes con lesiones necróticas, abscesos o celulitis purulenta Ingreso reciente Hemodiálisis VIH avanzado

CELULITIS Y ERISIPELA: Tratamiento

Tratamiento de elección	Tratamiento alternativo
<i>Sin sospecha de SARM</i>	<i>Sin sospecha de SARM</i>
Cefadroxilo vo 500 mg /8h. Cefazolina 1-2 gr iv /8h ó Ceftriaxona 2 gr iv /24 h + Cloxacilina 2 gr/6 h.	Clindamicina 300-600 mg /8 h vo ó Moxifloxacino 400 mg /24 h vo. Clindamicina 600 mg /8 h iv ó Vancomicina ó Linezolid 600 mg /12 h iv.
<i>Riesgo de SARM</i>	<i>Sospecha de Gram negativos</i>
Cotrimoxazol 160/800 mg vo /12 h ó Linezolid 600 mg /12 h vo. Vancomicina iv ó Linezolid 600 mg iv /12 h ó Daptomicina 6-8 mg /kg /24 h iv.	Asociar Levofloxacino 750 mg /24 h vo ó iv.

CELULITIS Y ERISIPELA: Tratamiento

Tratamiento de elección	Tratamiento alternativo
<i>Situaciones de riesgo</i>	<i>Situaciones de riesgo</i>
<u>Toxicidad sistémica</u> : tratar como una infección necrotizante. <u>Crepitación y/o maloliente</u> : sospechar y tratar como infección necrotizante <u>Diabetes</u> : tratar anaerobios y Gram negativos: Amoxicilina- Clavulánico 2 gr iv /8 h iv ó Piperacilina-Tazobactam 4/0.5 gr /8 h iv <u>Inmunodeprimidos</u> : tratar Gram negativos: Piperacilina-Tazobactam 4/0.5 gr /8 h iv	<u>Diabetes</u> : Levofloxacino 750 mg /24 h + Metronidazol 500 mg /8 h vo ó iv. <u>Inmunodeprimidos</u> : Levofloxacino 750 mg /24 h + Metronidazol 500 mg /8 h vo o iv.

CELULITIS RECURRENTE

Table 1. Local and systemic risk factors associated with recurrent cellulitis

Local risk factors	Systemic risk factors
<ul style="list-style-type: none">• previous episode of cellulitis• anatomic sites (lower limbs)• chronic edema• ipsilateral dermatitis• dermatomycosis• peripheral vascular disease• venous insufficiency• deep vein thrombosis• trauma• previous surgery• chronic wounds and ulcers• presence of foreign bodies	<ul style="list-style-type: none">• obesity• diabetes• cancer• homelessness• others (chronic kidney disease, chronic obstructive pulmonary disease, liver disease)• injection drug use

REVIEW



Prevention and treatment of recurrent cellulitis

Maddalena Peghin, Elena Graziano, Cristina Rovelli
and Paolo Antonio Grossi

Table 2. International guidelines recommendation for antibiotic prophylaxis in RC

Guidelines	Year	When to start prophylaxis	Antibiotic	Duration of prophylaxis	Self-administered antibiotic for RC
Australasian Lymphology Association [34]	2015	After 2 or more attacks of cellulitis per year	<ul style="list-style-type: none"> Penicillin V 500 mg OD or 250 mg BID Double dose if the patient weighs > 100kg Cephalexin (dosage not specified) If allergic to penicillin: erythromycin 250 mg OD 	<ul style="list-style-type: none"> Dosage of penicillin V may be reduced to 250 mg daily after one year of successful prophylaxis and discontinued after two years without recurrence Prophylaxis may need to be lifelong 	<ul style="list-style-type: none"> Dicloxacillin 500 mg QID Cephalexin (dosage not specified) If allergic to penicillin: Clindamycin 300 mg TID
British Lymphology Society & Lymphoedema Support Network [33]	2022	After 2 or more attacks of cellulitis per year	<ul style="list-style-type: none"> Penicillin V 250 mg BID if BMI ≥ 33: 500 mg BID If allergic to penicillin: clarithromycin 250 mg OD If allergic to penicillin and taking statins: doxycycline 100 mg OD 	NA	<ul style="list-style-type: none"> Flucloxacillin 500 mg – 1 g QID If allergic to penicillin: clarithromycin 500 mg BID If allergic to penicillin and taking statins: doxycycline 100 mg BID
Infectious Diseases Society of America [18]	2014	After 3–4 episodes of cellulitis per year	<ul style="list-style-type: none"> Oral Penicillin V 250–500 mg QID Erythromycin BID ma nel testo e presente 250 QID per il trattamento Intramuscular benzathine penicillin (2–4 MU every 4–6 weeks) 	<ul style="list-style-type: none"> 4–52 weeks (oral penicillin or erythromycin) every 2–4 weeks (intramuscular benzathine penicillin) As long as the predisposing factors persist 	NA
Italian Society of Infectious and Tropical Diseases [35]	2017	After 3–4 episodes of cellulitis per year	<ul style="list-style-type: none"> Oral Penicillin V (dosage not specified) Erythromycin BID (dosage not specified) Intramuscular benzathine penicillin (2–4 MU every 4–6 weeks) 	<ul style="list-style-type: none"> 4–52 weeks (oral penicillin or erythromycin) every 2–4 weeks (intramuscular benzathine penicillin) As long as the predisposing factors persist 	NA
National Institute for Health and Care Excellence [17]	2019	After 2 separate episodes in the previous 12 months	<ul style="list-style-type: none"> Penicillin V 250 mg BID If allergic to penicillin erythromycin 250 mg BID 	<ul style="list-style-type: none"> Not specified. Prophylaxis should be reviewed every 6 months 	NA

BID, twice a day; BMI, body mass index; NA, not available; OD, daily; QID, four times a day; RC, recurrent cellulitis; TID, three times a day.

CELULITIS RECURRENTE

Antibiotic prophylaxis is currently recommended by international guidelines after a minimum of 2–4 episodes of cellulitis per year, considering the importance of predisposing risk factors [17,18,33–35] (Table 2). A predictive score known as Cellulitis Recurrence Score (CRS) including chronic venous insufficiency (1 point), ipsilateral deep vein thrombosis (1 point), lymphedema (2 points) and peripheral vascular disease (3 points) may support interventions to prevent cellulitis to start prophylaxis, when CRS is ≥ 2 [36]. The recommended duration of prophylaxis usually ranges 6–12 months [18,34,35]. Antibiotic prophylaxis is effective as long as it is used but its effect declines over time [1,5]. Hence, antibiotics may be prolonged if RC occurs on discontinuation or until predisposing risk factor is corrected.

REVIEW



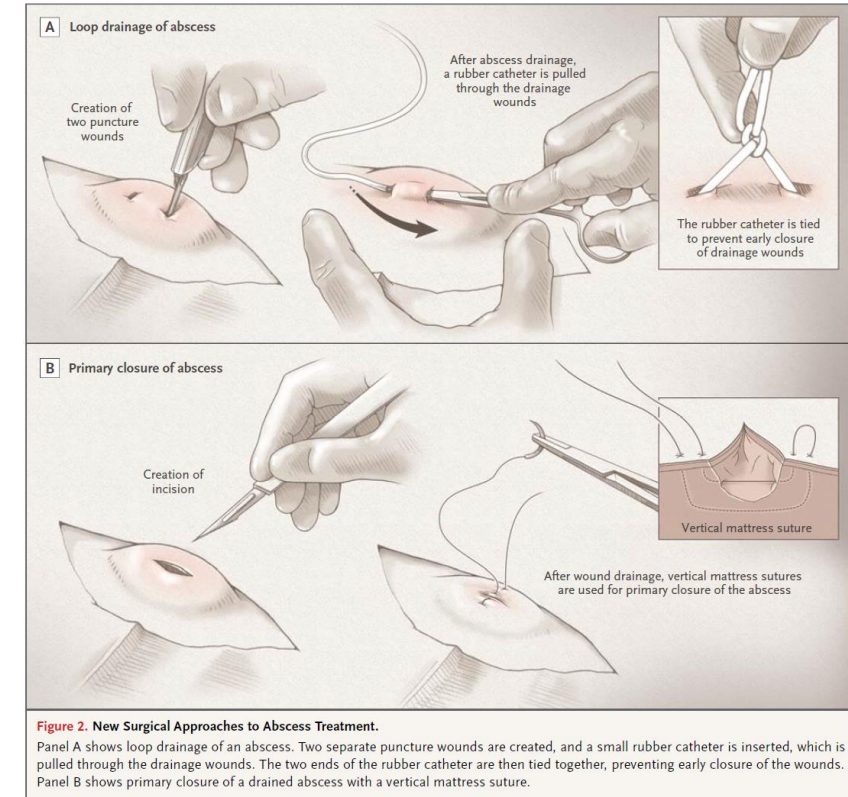
Prevention and treatment of recurrent cellulitis

Maddalena Peghin, Elena Graziano, Cristina Rovelli and Paolo Antonio Grossi

ABSCESO CUTÁNEO

Table 1. Empirical Oral Antibiotic Regimens Recommended by the Infectious Diseases Society of America for Selected Patients with a Presumed Methicillin-Resistant *Staphylococcus aureus* (MRSA) Abscess.*

Antibiotic	Dose	
	Adults	Children
Trimethoprim–sulfamethoxazole†	One or two double-strength doses (160 mg of trimethoprim and 800 mg of sulfamethoxazole) twice per day	4–6 mg of trimethoprim per kilogram of body weight per dose and 20–30 mg of sulfamethoxazole per kilogram per dose twice per day
Clindamycin‡	300–450 mg three times per day	10–13 mg per kilogram per dose three to four times per day, not to exceed 40 mg per kilogram per day
Doxycycline§	100 mg twice per day	For children older than 8 years of age: body weight ≤45 kg, 2 mg per kilogram per dose twice per day; >45 kg, adult dose
Minocycline	200 mg initially, followed by 100 mg every 12 hr	For children older than 8 years of age: 4 mg per kilogram initially, then 2 mg per kilogram (not to exceed adult dose) twice per day



THE NEW ENGLAND JOURNAL OF MEDICINE

REVIEW ARTICLE

Edward W. Campion, M.D., Editor

Management of Skin Abscesses in the Era of Methicillin-Resistant *Staphylococcus aureus*

Adam J. Singer, M.D., and David A. Talan, M.D.

**CELULITIS Y
ERISPELA**

**INFECCIÓN
NECROTIZANTE**

**PIE DIABÉTICO
INFECTADO**

**INFECCIÓN
ÚLCERA POR
PRESIÓN/SEPSIS**

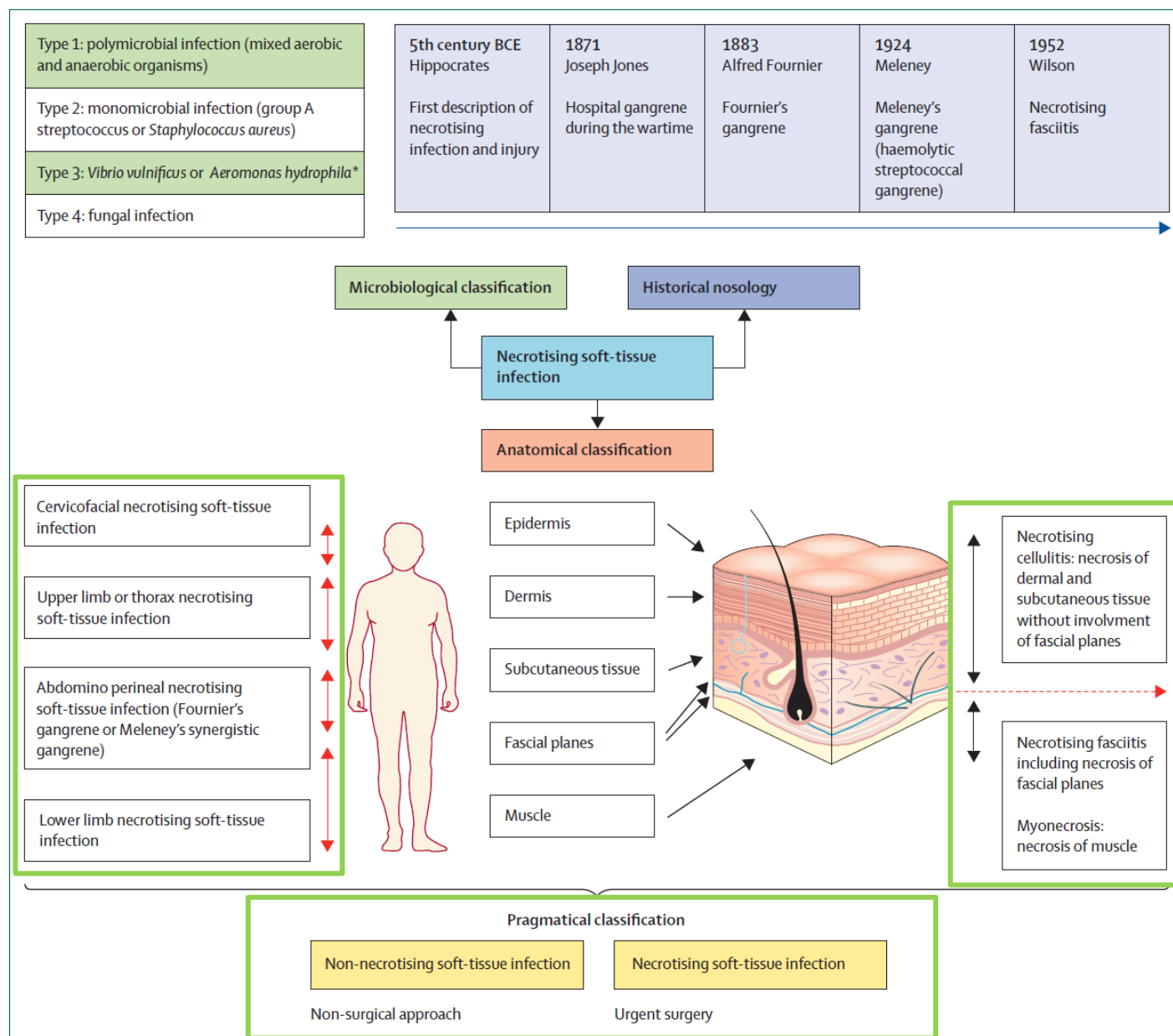


Figure 1: A pragmatic approach of categorising necrotising soft-tissue infections

Schema adapted from Prof Edouard Grosshans. *Not universally agreed on, some authors included clostridial infections or monomicrobial Gram-negative infections.

Necrotising soft-tissue infections

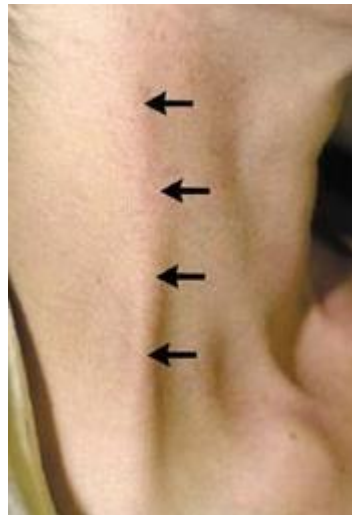
INFECCIÓN NECROTIZANTE

Dolor desproporcionado a la lesión observada, bullas violáceas, hemorragia cutánea, desprendimiento de piel, anestesia en la zona, gas en el tejido, rápida progresión.

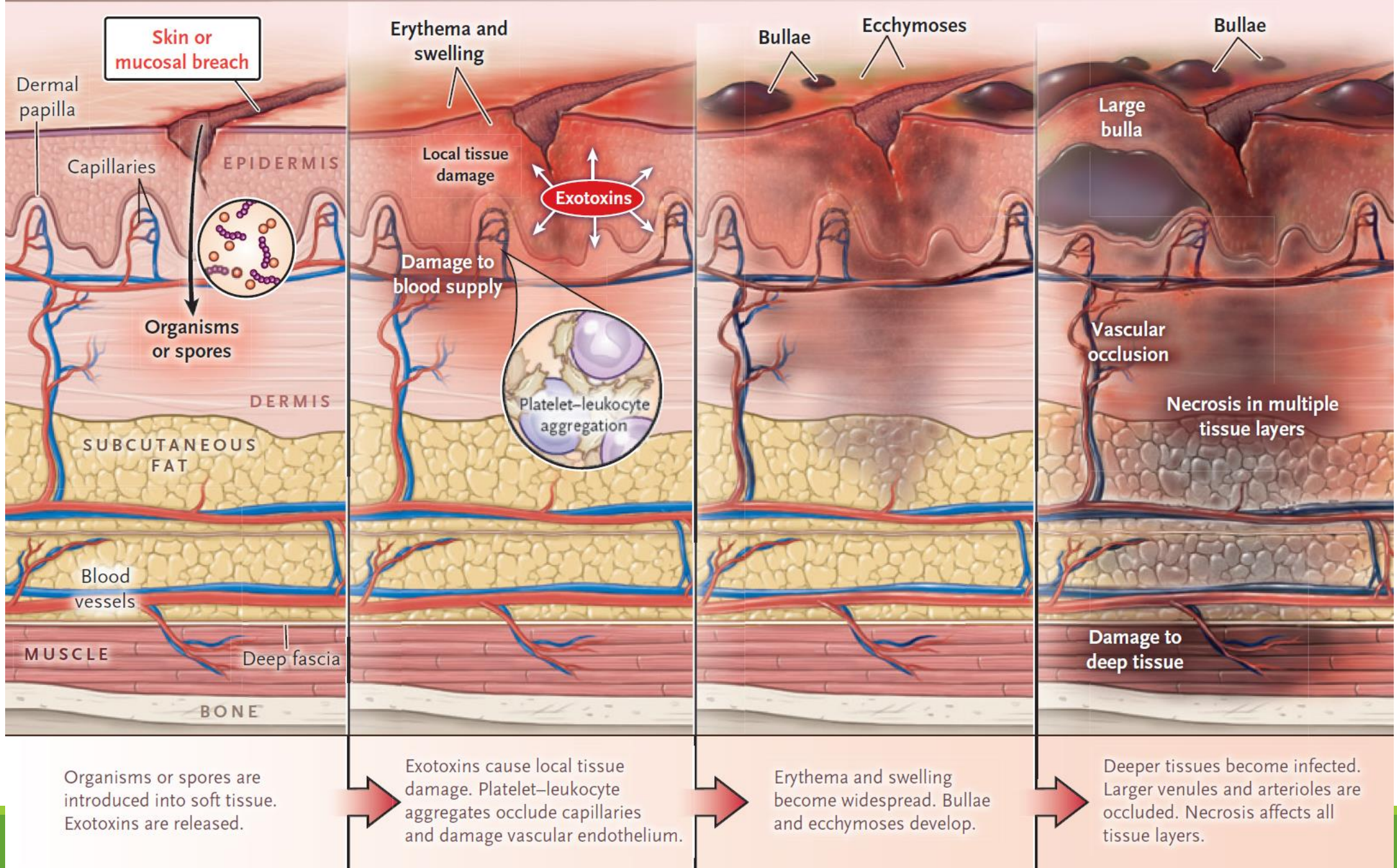
Gangrena de Fournier

Síndrome de Lemierre

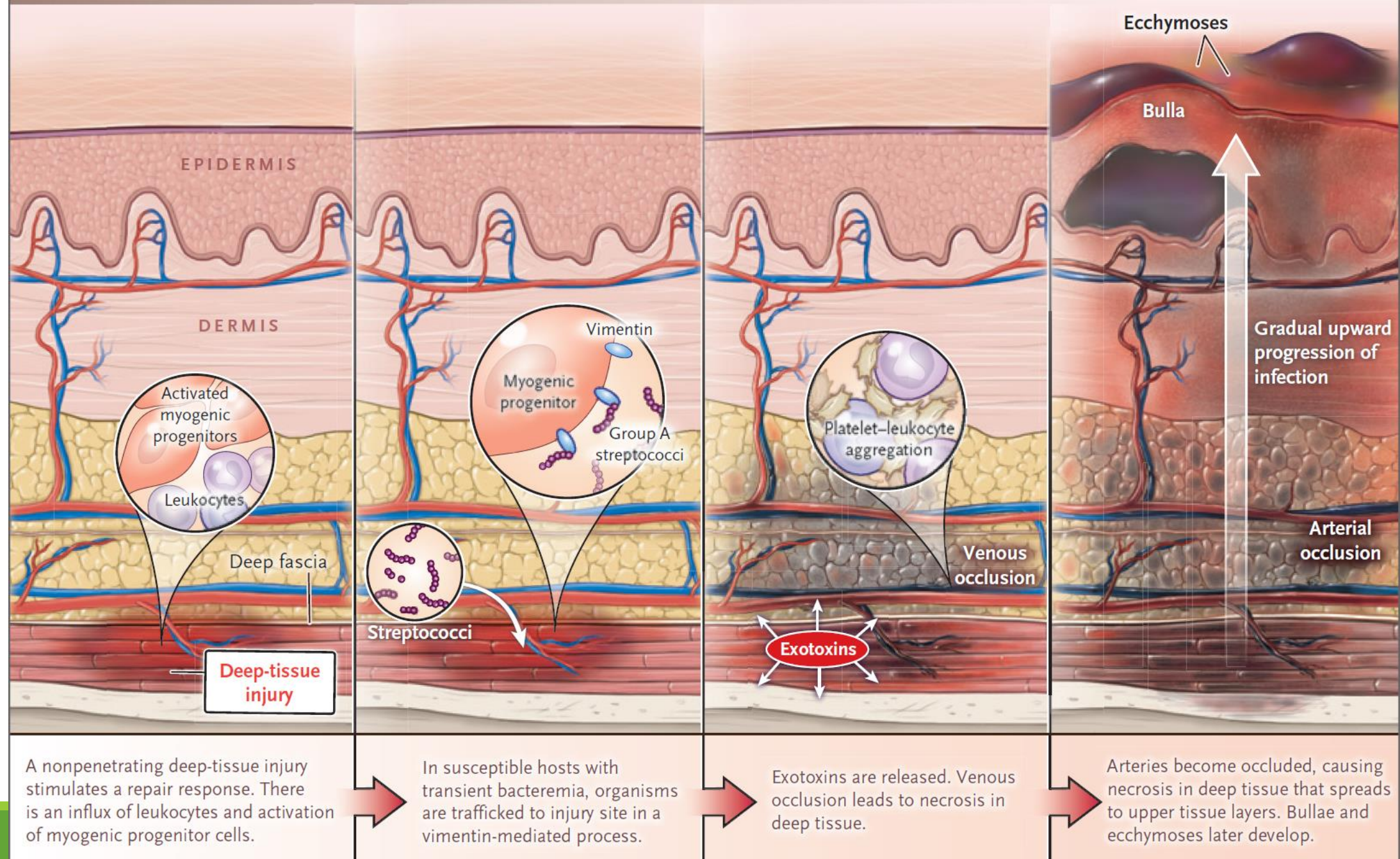
Angina de Ludwig



A Defined Portal of Entry



B No Defined Portal of Entry



FASCITIS NECROTIZANTE

Table 1. Classification of NF

Type	Common Locations	Infectious Profile	Common Microorganisms	Vulnerable Populations	Important Nuances
Type I (most common)	Perineum, trunk, groin, abdominal wall	Polymicrobial	≥1 anaerobic (nontypable streptococci and Enterobacteriaceae) + aerobic (Gram + or Gram –)	Mostly immunocompromised Patients Newborns (a complication of omphalitis)	Chronic illnesses/immunosuppression (diabetes mellitus, peripheral vascular disease, chronic renal failure, HIV, chronic cardiac/pulmonary disease) Recreational drug use (I.V. drug misuse, alcohol abuse) trauma (blunt/penetrating trauma, surgery, burns) Nutritional issues (obesity, malnutrition)
Type II (less common)	Extremities, head & neck	Monomicrobial	β-hemolytic group-A streptococcus <i>Staphylococcus aureus</i> Other streptococci	Mostly immunocompetent individuals with a history of recent trauma/operation	Toxic shock syndrome (30% of cases)
Type III (uncommon)	Extremities, trunk, perineum	Monomicrobial	<i>Vibrio</i> species (<i>Vibrio vulnificus</i> <i>Vibrio damsela</i> <i>Vibrio parahaemolyticus</i>) <i>Clostridium</i> species Gram-negative bacteria <i>Aeromonas hydrophila</i>	<i>Vibrio</i> : following minor injuries exposed to salt water <i>Clostridium</i> : Injury/Surgical wounds, drug addicts <i>Aeromonas</i> : Seafood consumption	Fulminant course Multiorgan failure, if untreated
Type IV (very rare)	Extremities, trunk, perineum	Fungal	<i>Candida</i> species Zygomycetes	Mostly after trauma/burns in immunocompetent individuals severely immunocompromised individuals	Aggressive especially in immunocompromised

Practical Review of Necrotizing Fasciitis: Principles and Evidence-based Management

Geet Guleria, MD
Maria T. Huuflant, MD
Nishant T. Sharma, MD
Jeffrey E. Janis, MD

Summary: Necrotizing fasciitis is a severe, life-threatening soft tissue infection that presents as a surgical emergency. It is characterized by a rapid progression of inflammation leading to extensive tissue necrosis and destruction. Nonetheless, the diagnosis might be missed or delayed due to variable and nonspecific clinical presentation, contributing to high mortality rates. Therefore, early diagnosis and prompt, aggressive medical and surgical treatment are paramount. In this review, we highlight the defining characteristics, pathophysiology, diagnostic modalities, current principles of treatment, and evolving management strategies of necrotizing fasciitis. (*Plast Reconstr Surg Glob Open* 2024; 12:e5533; doi: 10.1097/GOX.0000000000005533; Published online 19 January 2024.)

FASCITIS NECROTIZANTE

Sospecha:

- Leucocitosis > 20.000.
- Alteración función renal.
- Un estudio sugiere que PCR > 160 mg/L o CK > 600 UI/L deberían hacer iniciar el estudio de FN por S. pyogenes.

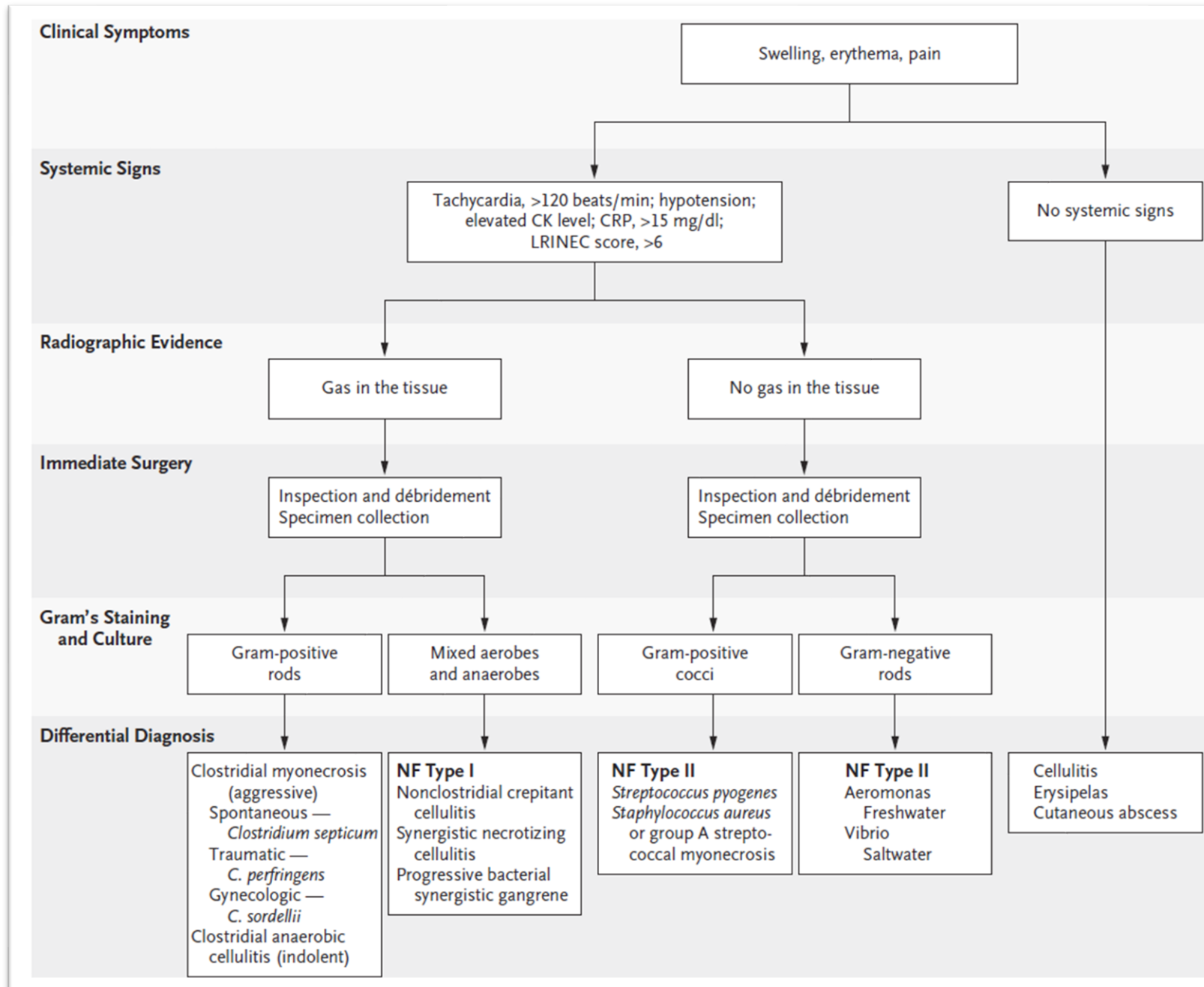
DIAGNÓSTICO

Diagnóstico microbiológico

- Hemocultivos (+ en 11-60% de los casos).
- Biopsia intraoperatoria (+ en 80%).
- Aspiración con aguja fina de un área de necrosis (+ hasta 73%).
- Cultivos para hongos en pacientes inmunocomprometidos.

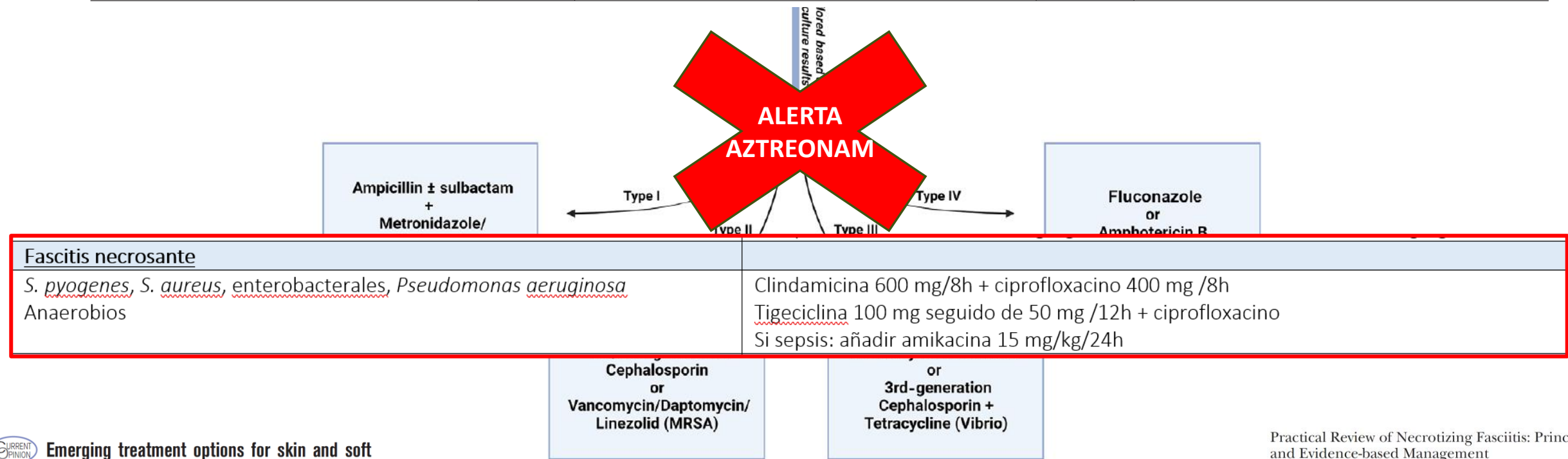
Laboratory Index	Summary of Included	VARIABLE	SCORE	Criteria
LRINEC	Six common serum para time of presentation	Proteína C reactiva (mg/l) <150 150 o más	0 4	≥6 = higher risk of NF
MLRINEC	Six common serum para disease at the time of	Leucocitos (per mm ³) <15 15-25 >25	0 1 2	≥12 = higher risk of NF
FGSI	Three vital signs + six se	Hemoglobina (g/dl) >13,5 11-13,5 >11	0 1 2	9 = cut-off value for NF >9 = mortality likelihood of 75% ≤9 = survival likelihood of 78%
SIARI	Four comorbidities + th markers	Sodio (mmol/l) ≥135 or more <135	0 2	imb3 = cut-off value for NF 6–7 = moderate risk of NF ≥8 = high risk for NF
		Creatinina (mg/dL) <1.6 ≥1.6	0 2	
LARINF	Three comorbidities + tl markers	Glucosa (mg/dL) menor o igual a 180 >180	0 1	ude ≥5 = higher risk of NF
Wong et al. The LRINEC (Laboratory Risk Indicator for Necrotizing Fasciitis) score: a tool for distinguishing necrotizing fasciitis from other soft tissue infections. Crit Care Med (2004) vol. 32 (7) pp. 1535-41				

Laboratory Index	Summary of Included Parameters	Parameters	Criteria
LRINEC	Six common serum parameters at the time of presentation	CRP total WBC count Hemoglobin serum Na Creatinine glucose	≥ 6 = higher risk of NF
MLRINEC	Six common serum parameters + liver disease at the time of presentation	CRP total WBC count Hemoglobin serum Na Creatinine glucose Lactate liver disease	≥ 12 = higher risk of NF
FGSI	Three vital signs + six serum markers	Temperature heart rate Respiration rate serum Na Serum K creatinine Hematocrit total WBC count Serum bicarbonate	9 = cut-off value for NF >9 = mortality likelihood of 75% ≤ 9 = survival likelihood of 78%
SIARI	Four comorbidities + three serum markers	Site of infection outside the lower limb History of immunosuppression Age ≤ 60 Creatinine Inflammatory markers (total WBC count CRP)	3 = cut-off value for NF 6–7 = moderate risk of NF ≥ 8 = high risk for NF
LARINF	Three comorbidities + three serum markers	Heart, liver, or renal insufficiency Immunosuppression (does not include diabetes) Obesity Procalcitonin CRP Hemoglobin	≥ 5 = higher risk of NF



Nonsurgical Therapy for the Management of Necrotizing Fasciitis

Choose 1	PLUS	Choose 1	PLUS	Give
<ul style="list-style-type: none">Vancomycin IV 15-20 mg/kg q6hrLinezolid IV 600 mg bid		<ul style="list-style-type: none">Piperacillin-tazobactam IV 3.375 g q6hrMeropenem IV 1g q8hrImipenem IV 1g q8hr		<ul style="list-style-type: none">Clindamycin IV 600-800 mg q8hr



Emerging treatment options for skin and soft tissue infections tailoring drug selection to individual patients

Nadia Castaldo^a, Antonio Vena^{b,c}, Alessandro Limongelli^{b,c},
Daniele Roberto Giacobbe^{b,c} and Matteo Bassetti^{b,c}

Practical Review of Necrotizing Fasciitis: Principles and Evidence-based Management

Günel Güllüova, MD
Maria T. Huayllani, MD
Nishant T. Sharma, MD
Jeffrey E. Jouis, MD

Summary: Necrotizing fasciitis is a severe, life-threatening soft tissue infection that presents as a surgical emergency. It is characterized by a rapid progression of inflammation leading to extensive tissue necrosis and destruction. Nonetheless, the diagnosis might be missed or delayed due to variable and nonspecific clinical presentation, contributing to high mortality rates. Therefore, early diagnosis and prompt, aggressive medical and surgical treatment are paramount. In this review, we highlight the defining characteristics, pathophysiology, diagnostic modalities, current principles of treatment, and evolving management strategies of necrotizing fasciitis. (*Plast Reconstr Surg Glob Open* 2024; 12:e5533; doi: 10.1097/GOX.0000000000005533; Published online 19 January 2024.)

**CELULITIS Y
ERISPELA**

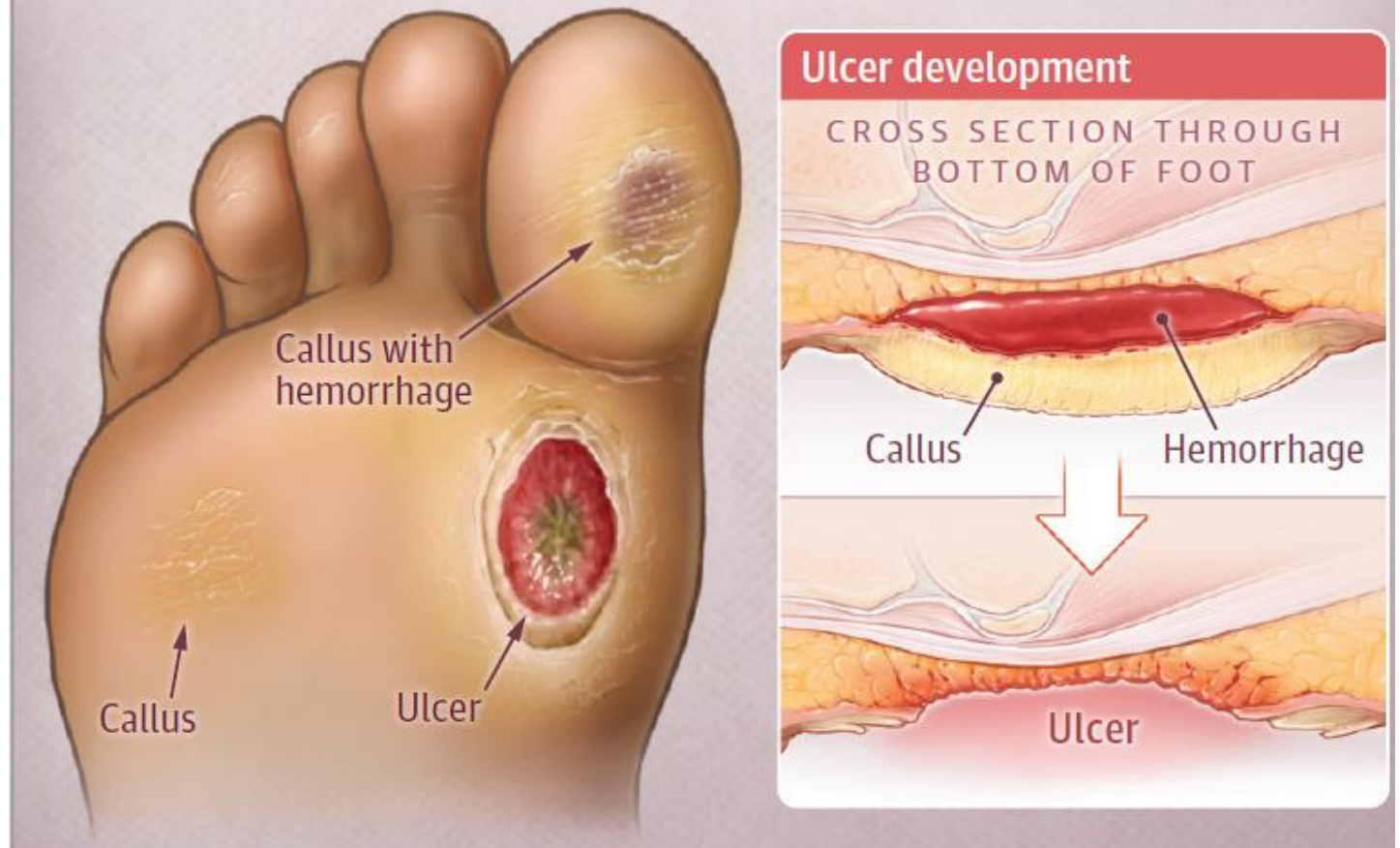
**INFECCIÓN
NECROTIZANTE**

**PIE DIABÉTICO
INFECTADO**

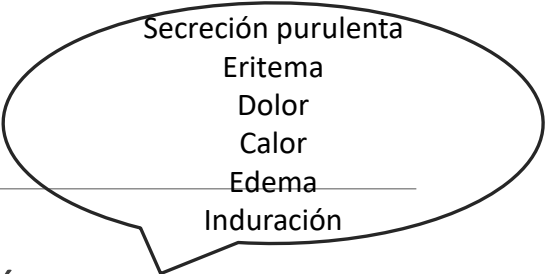
**INFECCIÓN
ÚLCERA POR
PRESIÓN/SEPSIS**

What Are Diabetic Foot Ulcers?

A **diabetic foot ulcer** is an open wound on the foot. Ulcers commonly occur when bleeding (hemorrhage) develops beneath a callus, then the callus wears away, exposing deeper tissues of the foot.



PIE DIABÉTICO INFECTADO



Secreción purulenta
Eritema
Dolor
Calor
Edema
Induración

Sin criterios de gravedad o leve: Dos o más manifestaciones de inflamación pero con celulitis < 2 cm alrededor de la úlcera, infección limitada a piel superficial o tejido subcutáneo sin otras complicaciones locales o sistémicas.

Con criterios de gravedad ó moderado/grave:

- Moderada: Dos o más manifestaciones de inflamación asociada al menos a uno de los siguientes: celulitis > 2 cm alrededor de la úlcera, linfangitis, propagación por debajo de la aponeurosis superficial, abscesos en tejidos profundos, gangrena y afectación del músculo, tendón, articulación, o hueso.
- Grave: Infección moderada asociada a inestabilidad hemodinámica o metabólica.

PIE DIABÉTICO INFECTADO

S. aureus.

Enterobacterias.

Anaerobios.

PIE DIABÉTICO INFECTADO

Realización de pruebas en infecciones moderadas o graves, o presencia de pus franco.

Gram y cultivo para aerobios/anaerobios por aspiración (transporte en Portagerm[®]) o curetaje de la base de la úlcera.

En infección moderada/grave solicitar: hemograma, PCR, perfil bioquímico básico, perfil hepático y renal, HbA1c, y gasometría venosa.

Descartar osteomielitis.

Si osteomielitis: estudio anatómo-patológico y cultivo óseo.

Desbridamiento quirúrgico (recogida de muestras).

Estudio vascular.



The Wound, Ischemia, and Foot Infection (WIFI) classification system

consists of 3 components graded separately from 0 (none) to 3 (severe).

One component may be dominant but the specific combination of scores is used to estimate the risk of limb amputation at 1 year and the need for or benefit of revascularization.^a


Wound (W)		
Grade	Ulcer	Gangrene
0	None	None
1	Small, shallow	None
2	Deep with exposed bone, joint, or tendon	Limited to digits
3	Extensive, deep, and involving forefoot and/or midfoot with or without calcaneal involvement	Extensive and involving forefoot and/or midfoot Full thickness heel necrosis with or without calcaneal involvement

Ischemia (I)		
Grade	Ankle-brachial index Ankle systolic pressure	Toe pressure or transcutaneous oximetry
0	≥0.80 >100 mm Hg	≥60 mm Hg
1	0.60-0.79 70-100 mm Hg	40-59 mm Hg
2	0.40-0.59 50-69 mm Hg	30-39 mm Hg
3	≤0.39 <50 mm Hg	<30 mm Hg

Foot infection (fi)	
Grade	Clinical manifestation
0	No symptoms or signs of infection
1	<p>Infection indicated by ≥2 of the following:</p> <ul style="list-style-type: none"> • Local swelling or induration • Erythema 0.5-2.0 cm around ulcer • Local tenderness or pain • Local warmth • Purulent discharge (thick, opaque to white, or sanguineous)
2	<p>Infection as described above with:</p> <ul style="list-style-type: none"> • Erythema >2 cm around ulcer • Involving structures deeper than skin and subcutaneous tissues (eg, abscess, osteomyelitis, septic arthritis, fasciitis) • No signs of systemic inflammatory response (see below)
3	<p>Infection as described above with ≥2 signs of systemic inflammatory response syndrome:</p> <ul style="list-style-type: none"> • Temperature >38 °C or <36 °C • Heart rate >90/min • Respiratory rate >20/min or PaCO₂ <32 mm Hg • White blood cell count >12 000/μL or <4000/μL or 10% immature forms

INFECCIÓN LEVE: de elección	INFECCIÓN LEVE: alternativa
<p>Amoxicilina-clavulánico 875/125 mg /8 h vo ± levofloxacino 500 mg /24 h vo.</p> <p>Si sospecha de SARM : valorar añadir cotrimoxazol 800/160 mg /8 h vo.</p>	<p>Clindamicina 300 mg /6 h vo + levofloxacino 500 mg /24 h vo</p>
INFECCIÓN MODERADA-GRAVE: de elección	INFECCIÓN MODERADA-GRAVE: alternativa
<p>Piperacilina-Tazobactam 4/0.5 g /8h iv ó Meropenem 1 gr /8 h</p>	<p>Aztreonam 1-2 gr /8h + Clindamicina 600 mg /6-8 h</p>
<p><u>Sospecha de SARM</u>: Añadir Vancomicina 1 gr/12 h ó Linezolid 600 mg /12 h o Daptomicina 6-8 mg /kg /24 h.</p>	
<p><u>Sospecha de BLEE</u>: Añadir Tigeciclina 100 mg iv en dosis de carga seguido de 50 mg /12 ho iv.</p>	
<p><u>Si toxicidad sistémica</u>, cubrir Pseudomonas</p>	

INFECCIÓN LEVE: de elección	INFECCIÓN LEVE: alternativa
<p>Amoxicilina-clavulánico 875/125 mg /8 h vo ± levofloxacino 500 mg /24 h vo.</p> <p>Si sospecha de SARM : valorar añadir cotrimoxazol 800/160 mg /8 h vo.</p>	<p>Clindamicina 300 mg /6 h vo + levofloxacino 500 mg /24 h vo</p>
INFECCIÓN MODERADA-GRAVE: de elección	INFECCIÓN MODERADA-GRAVE: alternativa
<p>Piperacilina-Tazobactam 4/0.5 g /8h iv ó Meropenem 1 gr /8 h</p>	<p>Aztreonam 1-2 gr /8h + Clindamicina 600 mg /6-8 h</p>
<p><u>Sospecha de SARM</u>: Añadir Vancomicina 1 gr/12 h ó Linezolid 600 mg /12 h o Daptomicina 6-8 mg /kg /24 h.</p>	<div data-bbox="1304 762 2211 1043"> <p>Úlceras crónicas. Exudativas con humedad Antibióticos en el mes previo.</p> </div>
<p><u>Sospecha de BLEE</u>: Añadir Tigeciclina 100 mg iv en dosis de carga seguido de 50 mg /12 ho iv.</p>	
<p><u>Si toxicidad sistémica</u>, cubrir Pseudomonas</p>	

INFECCIÓN LEVE: de elección	INFECCIÓN LEVE: alternativa
<p>Amoxicilina-clavulánico 875/125 mg /8 h vo ± levofloxacino 500 mg /24 h vo.</p> <p>Si sospecha de SARM : valorar añadir cotrimoxazol 800/160 mg /8 h vo.</p>	<p>Clindamicina 300 mg /6 h vo + levofloxacino 500 mg /24 h vo</p>
INFECCIÓN MODERADA-GRAVE: de elección	INFECCIÓN MODERADA-GRAVE: alternativa
<p>Piperacilina-Tazobactam 4/0.5 g /8h iv ó Meropenem 1 gr /8 h</p>	<p>Aztreonam 1-2 gr /8h + Clindamicina 600 mg /6-8 h</p>
<p><u>Sospecha de SARM</u>: Añadir Vancomicina 1 gr/12 h ó Linezolid 600 mg /12 h o Daptomicina 6-8 mg /kg /24 h.</p>	
<p><u>Sospecha de BLEE</u>: Añadir Tigeciclina 100 mg iv en dosis de carga seguido de 50 mg /12 ho iv.</p>	
<p><u>Si toxicidad sistémica</u>, cubrir Pseudomonas</p>	
Celulitis o pie diabético complicado	
<p><i>S. pyogenes</i>, <i>S. aureus</i>, <i>enterobacterales</i>, <i>Pseudomonas aeruginosa</i></p>	<p>Levofloxacino 750 mg/24h IV</p> <p>Si sepsis: Vancomicina 30-40 mg/Kg/día en 2-3 dosis IV + amikacina 15 mg/kg/24h</p>

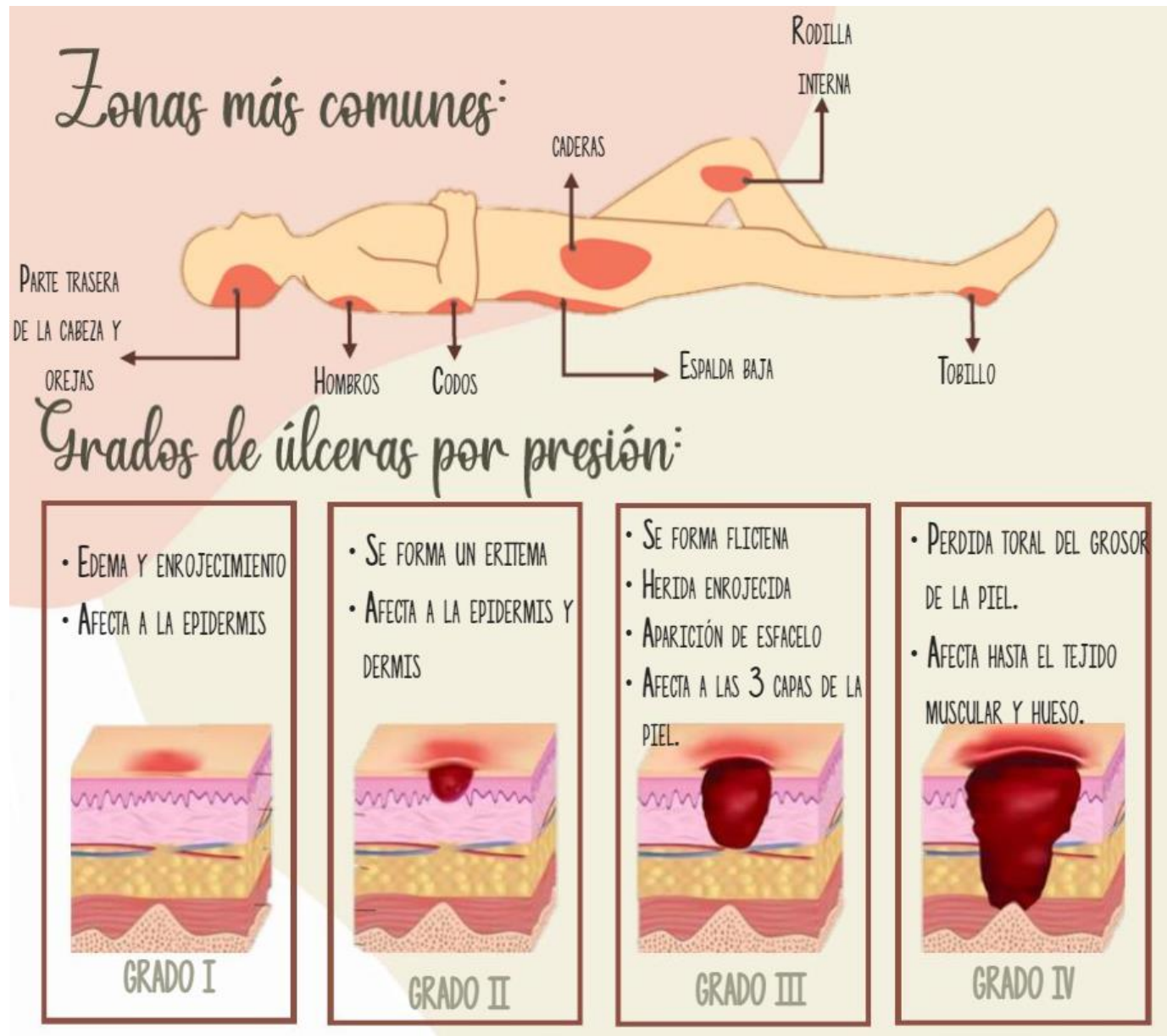
**CELULITIS Y
ERISPELA**

**INFECCIÓN
NECROTIZANTE**

**PIE DIABÉTICO
INFECTADO**

**INFECCIÓN
ÚLCERA POR
PRESIÓN**


INFECCIÓN DE ÚLCERAS POR PRESIÓN



INFECCIÓN DE ÚLCERAS POR PRESIÓN

Etiología polimicrobiana

- Desaconsejado el cultivo con torunda excepto tras retirar escara.
- Cultivar aspirado profundo con Portagerm[®].

Tratamiento de elección	Tratamiento alternativo
<p>Drenaje/curetaje quirúrgico.</p> <p>Sin datos de sepsis: esperar a Gram/cultivos.</p> <p>Con datos de sepsis: iniciar antibiótico: Piperacilina/Tazobactam 4 gr /8h iv (primera dosis en 30 min, siguientes en 4 horas) + Vancomicina 15-20 mg /kg /8-12 h ó Linezolid 600 mg /12 h vo o iv.</p>	<p>Drenaje/curetaje quirúrgico.</p> <p>Sin datos de sepsis: esperar a Gram/cultivos.</p> <p>En caso de sepsis: Aztreonam 1-2 gr /8 h + Vancomicina 15-20 mg /kg /8-12 h iv</p> <div data-bbox="1559 711 1956 1025">  <p>ALERTA AZTREONAM</p> </div>

<u>Celulitis o pie diabético complicado</u>	
<i>S. pyogenes</i> , <i>S. aureus</i> , enterobacterales, <i>Pseudomonas aeruginosa</i>	<p>Levofloxacino 750 mg/24h IV</p> <p>Si sepsis: Vancomicina 30-40 mg/Kg/día en 2-3 dosis IV + amikacina 15 mg/kg/24h</p>



PROAZA
@PROAZAMORA