



World
Organisation
for Animal
Health

Organisation
mondiale
de la santé
animale

Organización
Mundial
de Sanidad
Animal

18th CONFERENCE OF THE REGIONAL COMMISSION FOR THE MIDDLE EAST

Larnaca, Cyprus, 24-28 November 2025

Antimicrobial Resistance

Everyone's matter,
Everyone's responsibility

JOURNAL OF CLINICAL MICROBIOLOGY, Oct. 2001, p. 3693–3695
0095-1137/01/\$04.00+0 DOI: 10.1128/JCM.39.10.3693–3695.2001
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Identification of *Staphylococcus* spp. by PCR-Restriction Fragment Length Polymorphism of *gap* Gene

JAVIER YUGUERO,¹ JAVIER TEMPRANO,¹ MARÍA SÁNCHEZ,¹

JOURNAL OF CLINICAL MICROBIOLOGY, Dec. 2000, p. 4351–4355
0095-1137/00/\$04.00+0
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Glyceraldehyde-3-Phosphate Dehydrogenase: a Useful Taxonomic Tool

JAVIER YUGUERO

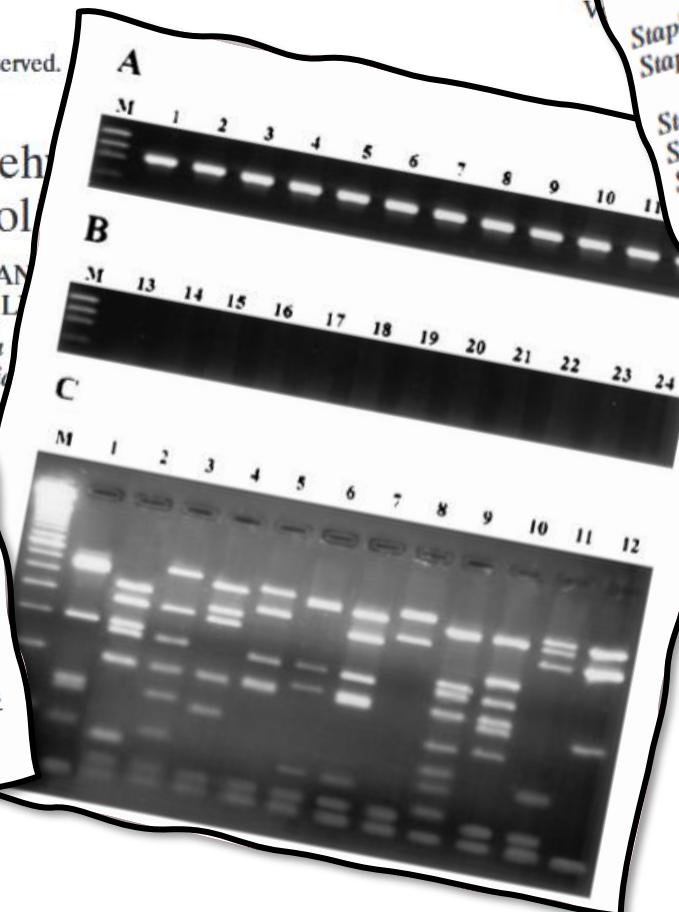
Journal of Microbiological Methods
Volume 60, Issue 2, February 2005, Pages 275–279



Note

Evaluation of a high-density oligonucleotide array for characterization of *grlA*, *grlB*, *gyrA* and *gyrB* mutations in fluoroquinolone resistant *Staphylococcus aureus* isolates

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Strain
Staphylococcus aureus

Staphylococcus epidermidis

Staphylococcus capitis
Staphylococcus hominis

Staphylococcus saprophyticus
Staphylococcus warneri

Staphylococcus sp.
Staphylococcus xylosus
Staphylococcus sp.
Staphylococcus auricularis
Staphylococcus carnosus
Staphylococcus simulans

Staphylococcus intermedius
Staphylococcus haemolyticus

Streptococcus sp.
Streptococcus agalactiae

Streptococcus bovis
Streptococcus dysagalactiae

Streptococcus suis
Bacillus cereus

Enterococcus faecalis
Micrococcus luteus

Aeromonas hydrophila

Escherichia coli

Salmonella cholerasuis

Yersinia ruckeri

Personal data protected

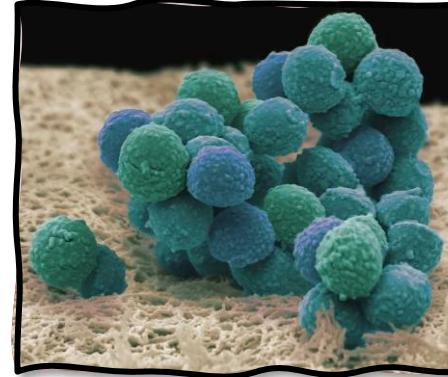
Tipo de Muestra ORINA SONDA VESICAL

UROCULTIVOS
UROCULTIVO

Staphylococcus epidermidis

Valorar clínicamente
POSITIVO
Recuento aproximado 50.000 UFC/ml

	<i>S. epidermidis</i>			
Penicilina	>0.25	R		
Amoxi/Clav.	8/4	R		
Oxacilina	>2	R		
Gentamicina	>4	R		
Nitrofurantoina	<=32	S		
Levofloxacina	>4	R		
Cotrimoxazol	<=1/19	S		
Fosfomicina	<=32	S		
Vancomicina	2	S		
Teicoplanina	4	S		

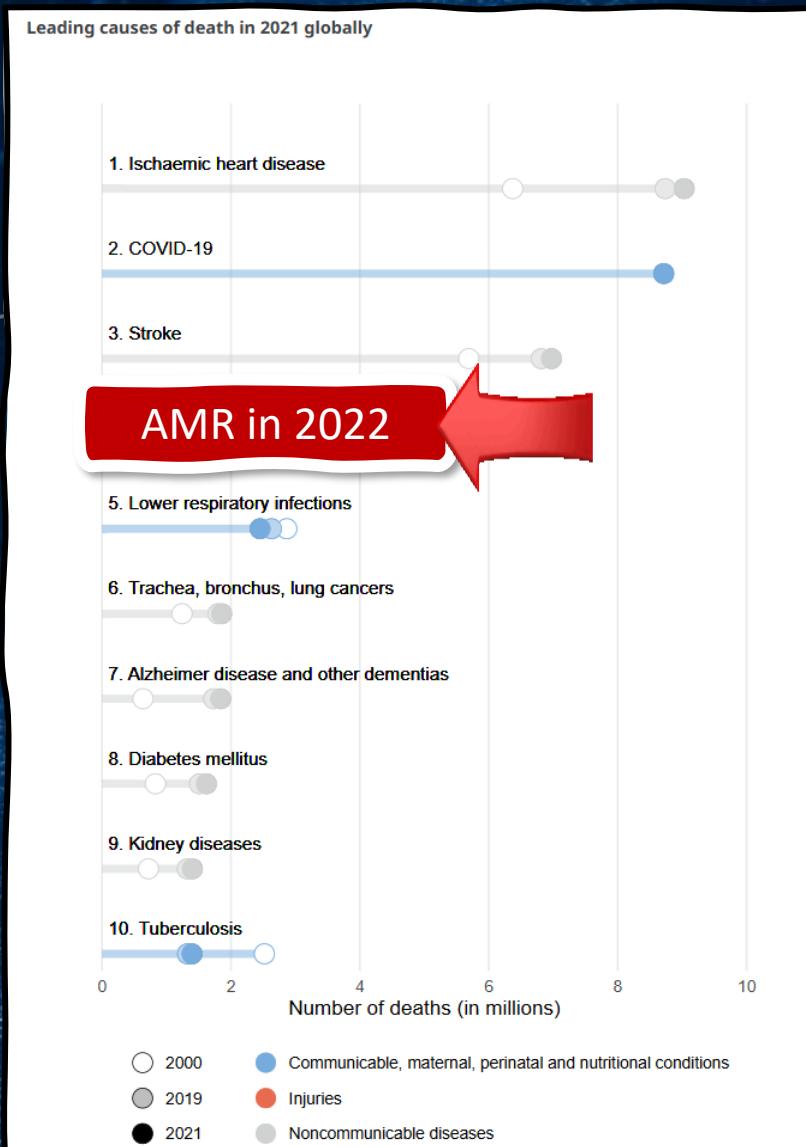


Staphylococcus epidermidis, also known as 'the white Staph', is part of the normal skin flora and can cause opportunistic infections

- Penicillins
- Aminoglycosides
- Fluoroquinolones
- 2nd generation cephalosporins

Multi-drug resistant

- Phosphonic acid derivatives
- Glycopeptides



And what would happen if we do not change our current behaviour?

From now to 2050...





WAHIS

- Diseases 'present'
- Domestic & Wild Animals
- First Semester 2025 (Jan – Jun)



96

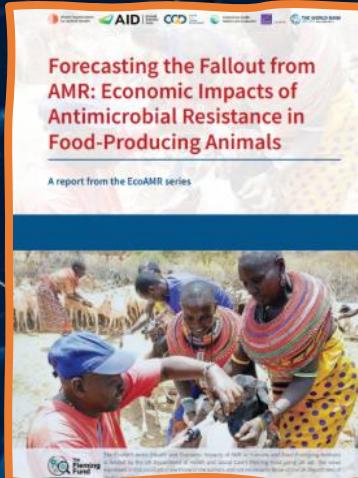
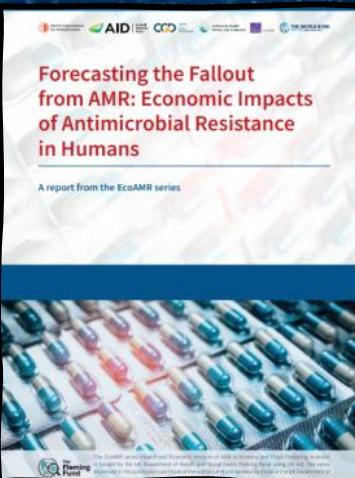
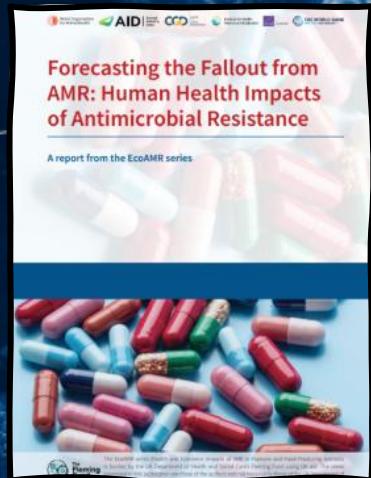
different diseases

Disease	Grand Total	Africa	Americas	Asia	Europe	Oceania
Influenza A viruses of high pathogenicity (Inf. with) (non-poultry including wild birds) (2017-)	73	2	15	9	47	
African swine fever virus (Inf. with)	54	7		15	31	1
High pathogenicity avian influenza viruses (poultry) (Inf. with)	48	10	5	12	20	1
Foot and mouth disease virus (Inf. with)	32	17		12	3	
Rabies virus (Inf. with)	28	8	2	14	4	
Anthrax	21	12	3	4	2	
Bluetongue virus (Inf. with)	19	5		1	13	
Peste des petits ruminants virus (Inf. with)	17	8		5	4	
Newcastle disease virus (Inf. with)	14	6	1	3	4	
Brucella abortus (Inf. with)	13	3	4	4	2	
Mycobacterium tuberculosis complex (Inf. with) (2019-)	12	3	1	3	5	
Lumpy skin disease virus (Inf. with)	11	4		5	2	
New world screwworm (Cochliomyia hominivorax)	11		11			
Pathogenic rabbit lagoviruses (Rabbit haemorrhagic disease) (Inf. with)	11	6	2		3	
Bovine anaplasmosis	9	3	3	2	1	
Bovine babesiosis	9	3	3	2		1
Sheep pox and goat pox	9	3		3	3	
Equine infectious anaemia	8		2		6	
Varroa spp. (Inf. of honey bees with) (Varroosis)	8	1	3		3	1
Bovine pestiviruses (Bovine viral diarrhoea) (Inf. with)	7	1	3	1	2	
Brucella melitensis (Inf. with)	7	3		2	2	
Echinococcus granulosus (Inf. with) (2014-)	7		2	4	1	
Fowl typhoid	7	3	2	2		
Infectious bursal disease (Gumboro disease)	7	3	2	2		
Avian infectious bronchitis	6	3	2	1		
Avian infectious laryngotracheitis	6	2	3		1	
Leishmania spp. (Inf. with) (Leishmaniosis)	6	1	2	1	1	1
Mycoplasma gallisepticum (Avian mycoplasmosis) (Inf. with)	6	1	2	2	1	
Mycoplasma mycoides subsp. mycoides SC (Inf. with) (Contagious bovine pleuropneumonia)	6	6				

- AMR does not appear, as in the human list
- Mortality & prevalence studies are rare and scattered
- How many of these require antimicrobials for veterinary care?
- What's the impact of drug-resistant bacteria in productivity?



Three reports & one policy brief providing new evidence on the cost of AMR from a One Health Perspective



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