

EuSCAPE EQA 2013

EUCAST töörühma koosolek

19.11.2013

ITK

	Specimen Number				
	1940	1941	1942	1943	1944
Agent	<i>Klebsiella pneumoniae</i>	<i>Enterobacter cloacae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>
Amikacin	S	R	I/R	S	I/R
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	R*	R	R*	S	R*
Cefepime	R	R	R	S	R
Cefotaxime	R	R	R	I	R
Ceftazidime	R	R	R	S	R
Ciprofloxacin	R	R	R	S	R
Colistin	S	S	S*	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	S*	S*	Not assigned	S*
Gentamicin	R	R	S	S	S
Imipenem	R	R	R	I	R*
Meropenem	R	R	R	I	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	R	R	S	Not assigned
Tobramycin	R	R	R	S	R
Trimethoprim/Sulfamethoxazole	R*	R*	R*	R*	S*
Carbapenemase gene	KPC	NDM	KPC	OXA-48-group	KPC

Key: Not assigned = no reference result and no consensus

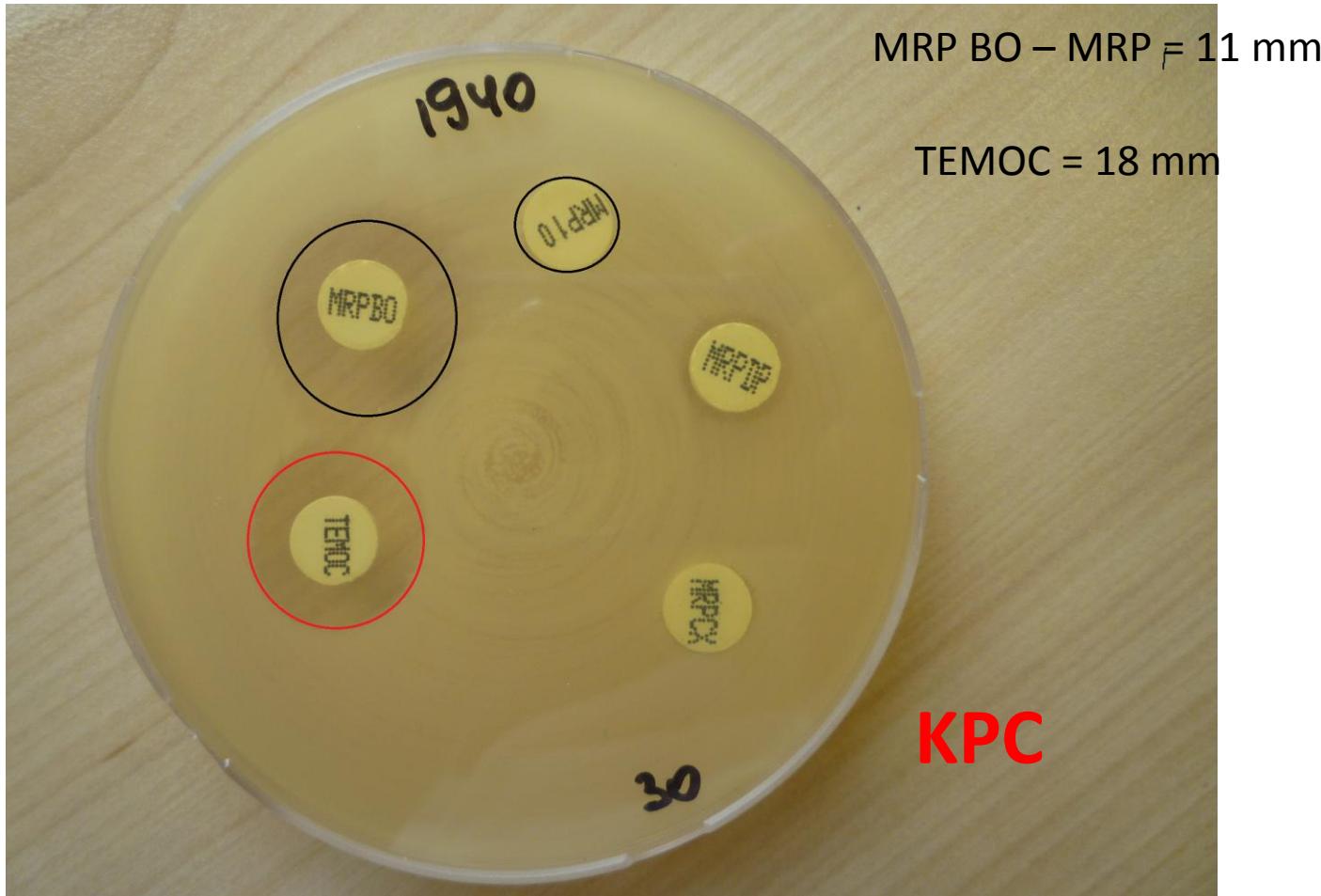
* = consensus result

S = susceptible

I = intermediate

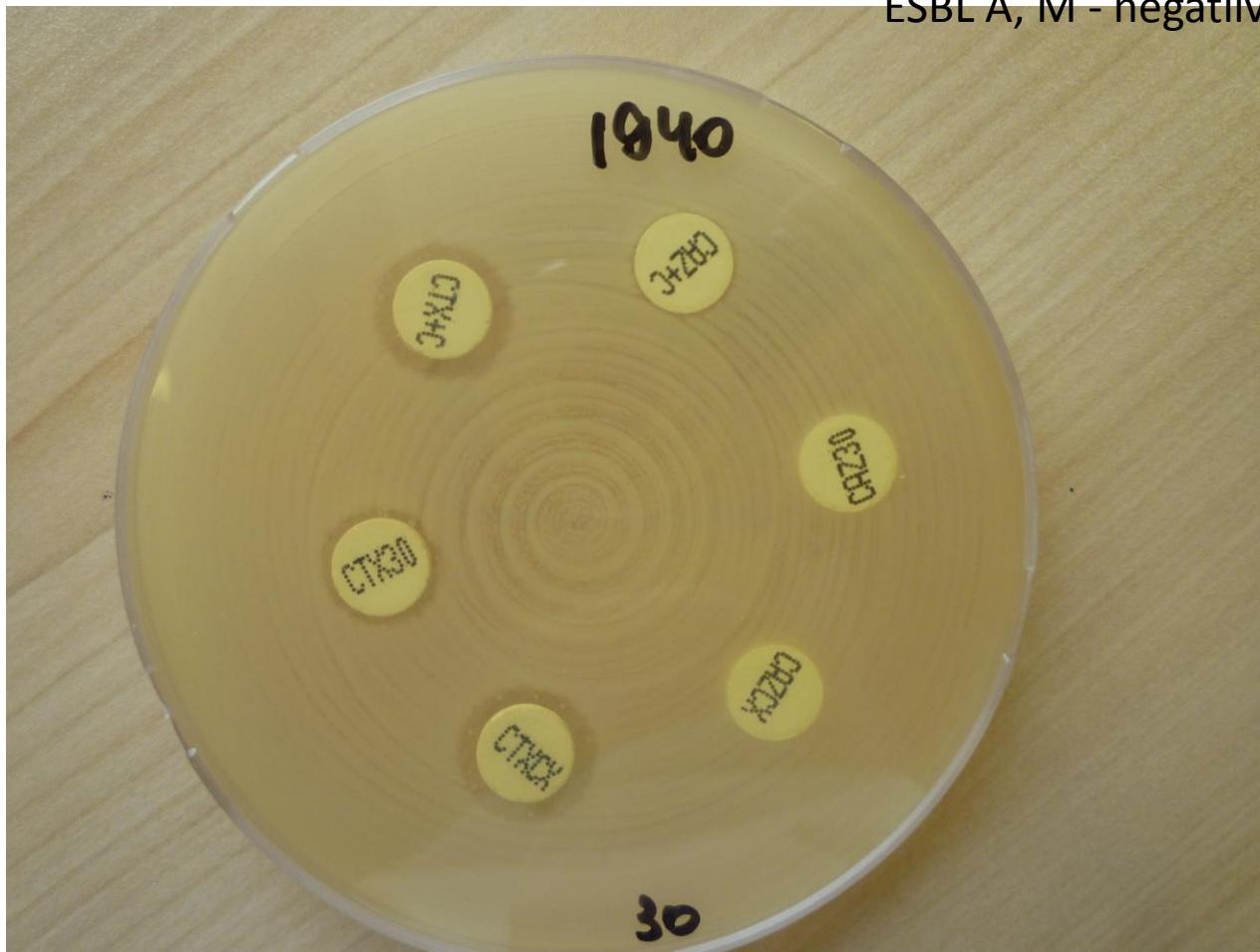
R = resistant

1 tüvi - *Klebsiella pneumoniae*



1 tüvi - *Klebsiella pneumoniae*

ESBL A, M - negatiivne



	Specimen Number				
	1940	1941	1942	1943	1944
Agent	<i>Klebsiella pneumoniae</i>	<i>Enterobacter cloacae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>
Amikacin	S	R	I/R	S	I/R
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	R*	R	R*	S	R*
Cefepime	R	R	R	S	R
Cefotaxime	R	R	R	I	R
Ceftazidime	R	R	R	S	R
Ciprofloxacin	R	R	R	S	R
Colistin	S	S	S*	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	S*	S*	Not assigned	S*
Gentamicin	R	R	S	S	S
Imipenem	R	R	R	I	R*
Meropenem	R	R	R	I	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	R	R	S	Not assigned
Tobramycin	R	R	R	S	R
Trimethoprim/Sulfamethoxazole	R*	R*	R*	R*	S*
Carbapenemase gene	KPC	NDM	KPC	OXA-48-group	KPC

Key: Not assigned = no reference result and no consensus

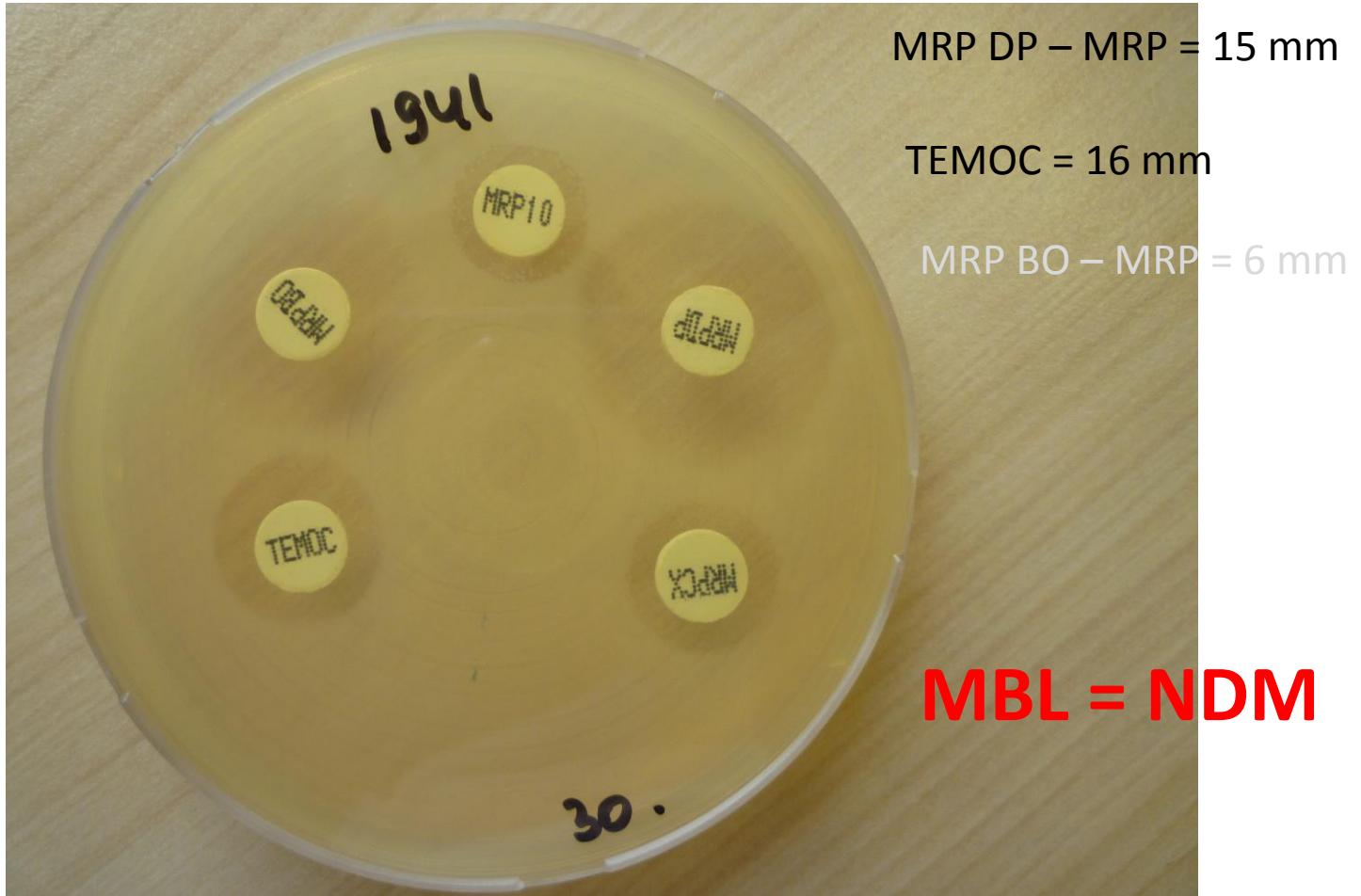
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I = intermediate

R = resistant

2 tüvi – *Enterobacter cloacae*



2 tüvi – *Enterobacter cloacae*



	Specimen Number				
	1940	1941	1942	1943	1944
Agent	<i>Klebsiella pneumoniae</i>	<i>Enterobacter cloacae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>
Amikacin	S	R	I/R	S	I/R
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	R*	R	R*	S	R*
Cefepime	R	R	R	S	R
Cefotaxime	R	R	R	I	R
Ceftazidime	R	R	R	S	R
Ciprofloxacin	R	R	R	S	R
Colistin	S	S	S*	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	S*	S*	Not assigned	S*
Gentamicin	R	R	S	S	S
Imipenem	R	R	R	I	R*
Meropenem	R	R	R	I	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	R	R	S	Not assigned
Tobramycin	R	R	R	S	R
Trimethoprim/Sulfamethoxazole	R*	R*	R*	R*	S*
Carbapenemase gene	KPC	NDM	KPC	OXA-48-group	KPC

Key: Not assigned = no reference result and no consensus

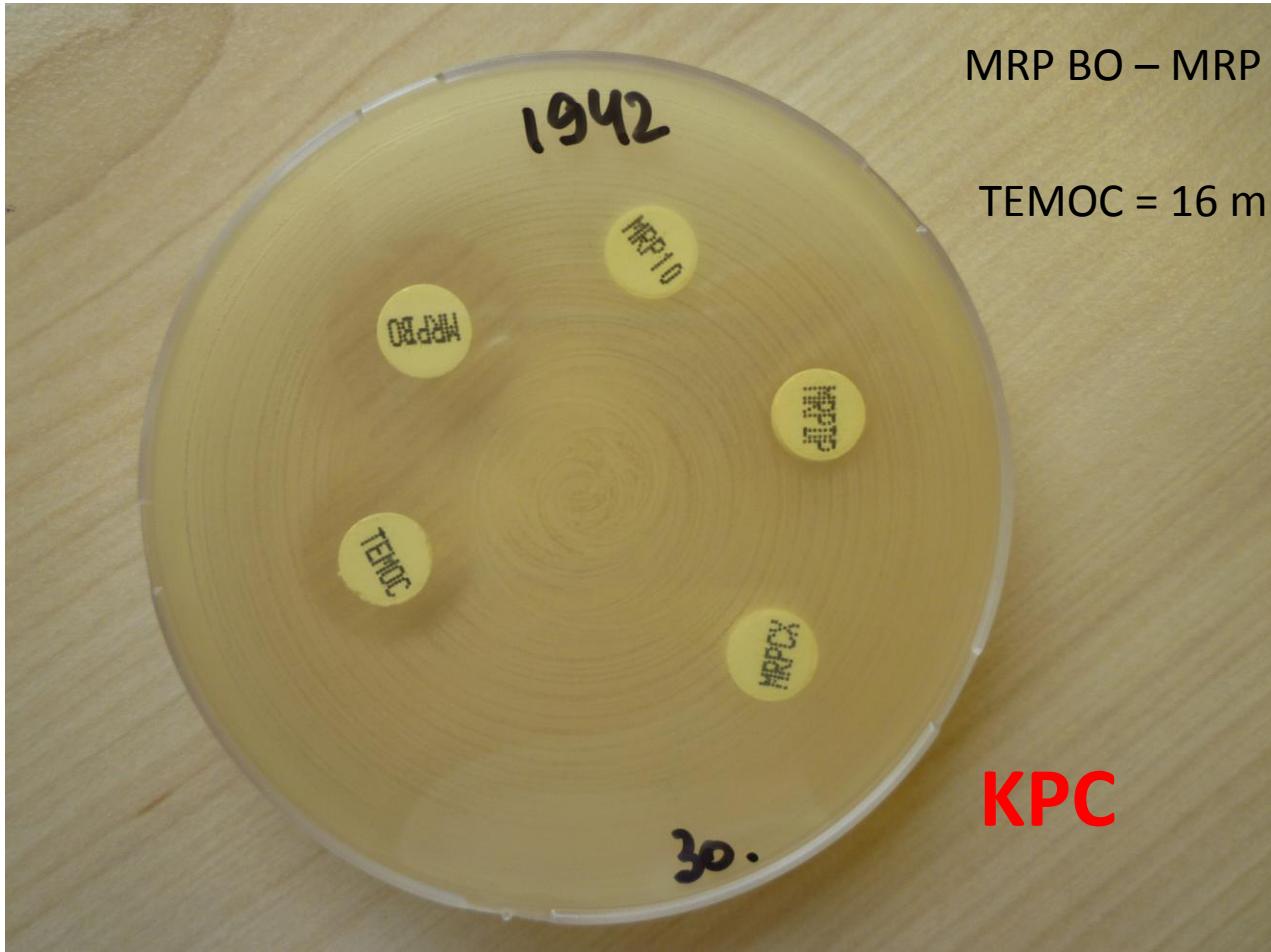
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S = susceptible

I = intermediate

R = resistant

3 tüvi – *Klebsiella pneumoniae*



	Specimen Number				
	1940	1941	1942	1943	1944
Agent	Klebsiella pneumoniae	Enterobacter cloacae	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae
Amikacin	S	R	I/R	S	I/R
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	R*	R	R*	S	R*
Cefepime	R	R	R	S	R
Cefotaxime	R	R	R	I	R
Ceftazidime	R	R	R	S	R
Ciprofloxacin	R	R	R	S	R
Colistin	S	S	S*	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	S*	S*	Not assigned	S*
Gentamicin	R	R	S	S	S
Imipenem	R	R	R	I	R*
Meropenem	R	R	R	I	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	R	R	S	Not assigned
Tobramycin	R	R	R	S	R
Trimethoprim/Sulfamethoxazole	R*	R*	R*	R*	S*
Carbapenemase gene	KPC	NDM	KPC	OXA-48-group	KPC

Key: Not assigned = no reference result and no consensus

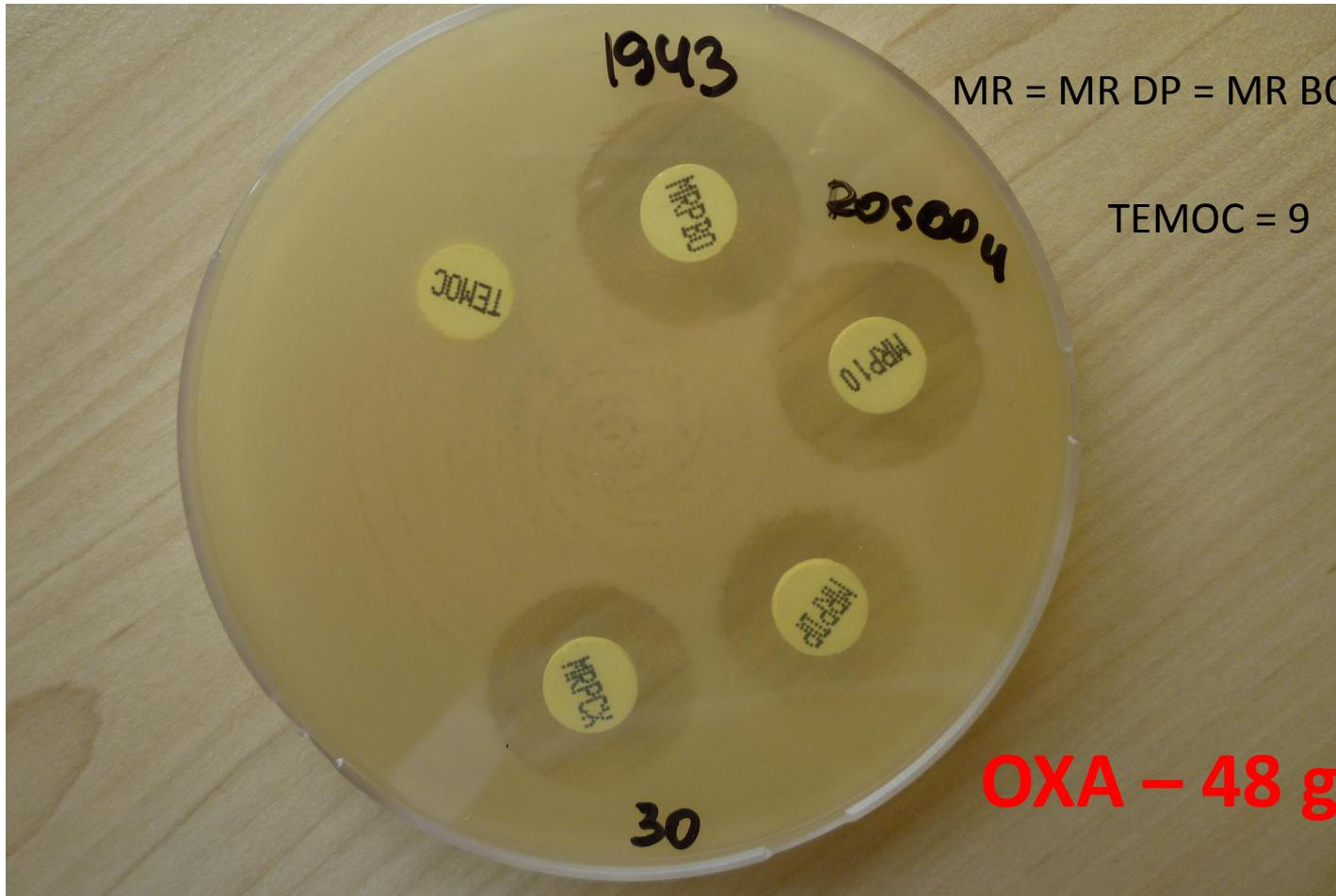
* = consensus result

S = susceptible

I = intermediate

R = resistant

4 tüvi – *Klebsiella pneumoniae*



Agent	Specimen Number				
	1940	1941	1942	1943	1944
<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Enterobacter cloacae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>
Amikacin	S	R	I/R	S	I/R
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	R*	R	R*	S	R*
Cefepime	R	R	R	S	R
Cefotaxime	R	R	R	I	R
Ceftazidime	R	R	R	S	R
Ciprofloxacin	R	R	R	S	R
Colistin	S	S	S*	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	S*	S*	Not assigned	S*
Gentamicin	R	R	S	S	S
Imipenem	R	R	R	I	R*
Meropenem	R	R	R	I	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	R	R	S	Not assigned
Tobramycin	R	R	R	S	R
Trimethoprim/Sulfamethoxazole	R*	R*	R*	R*	S*
Carbapenemase gene	KPC	NDM	KPC	OXA-48-group	KPC

Key: Not assigned = no reference result and no consensus

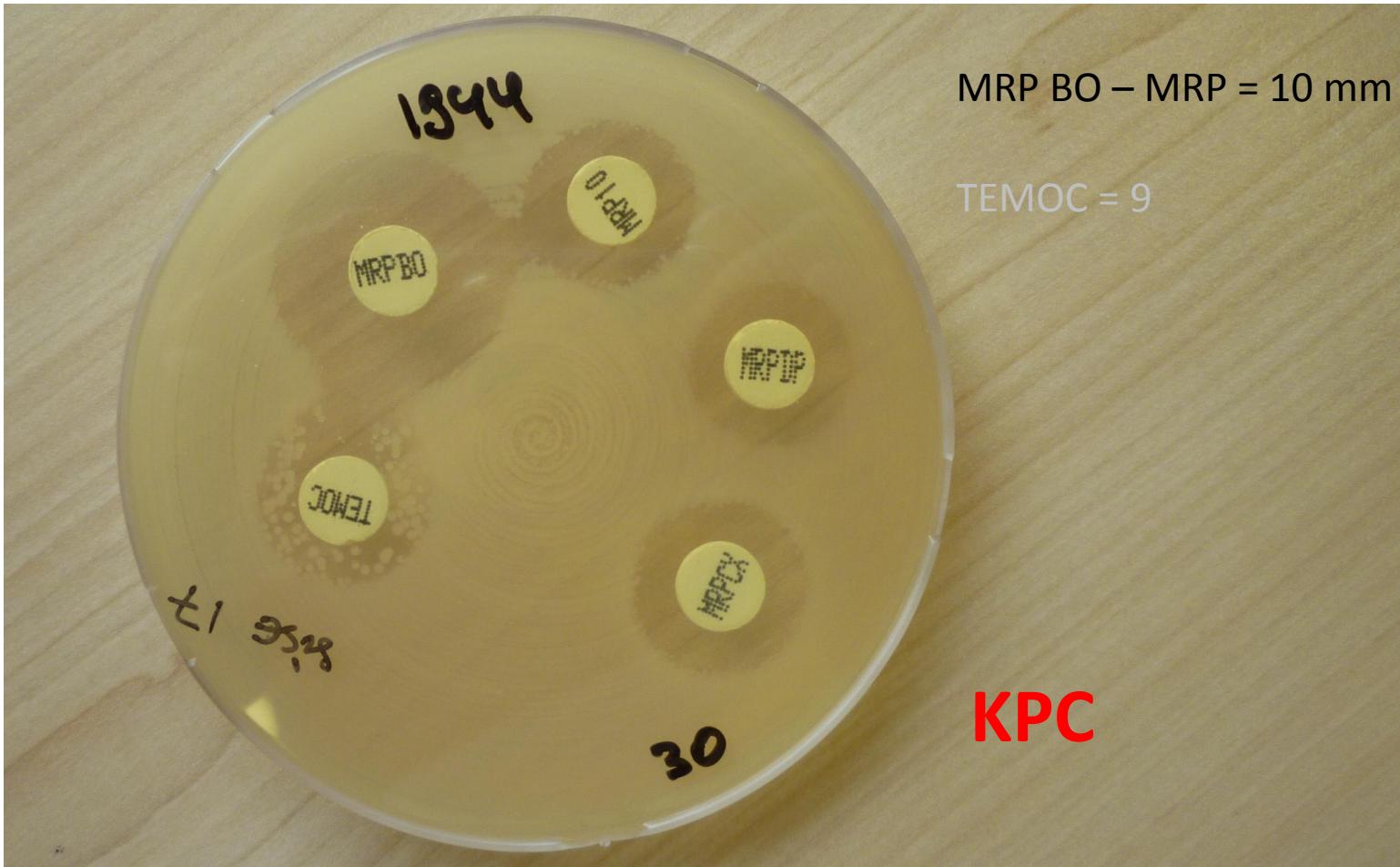
* = consensus result

S = susceptible

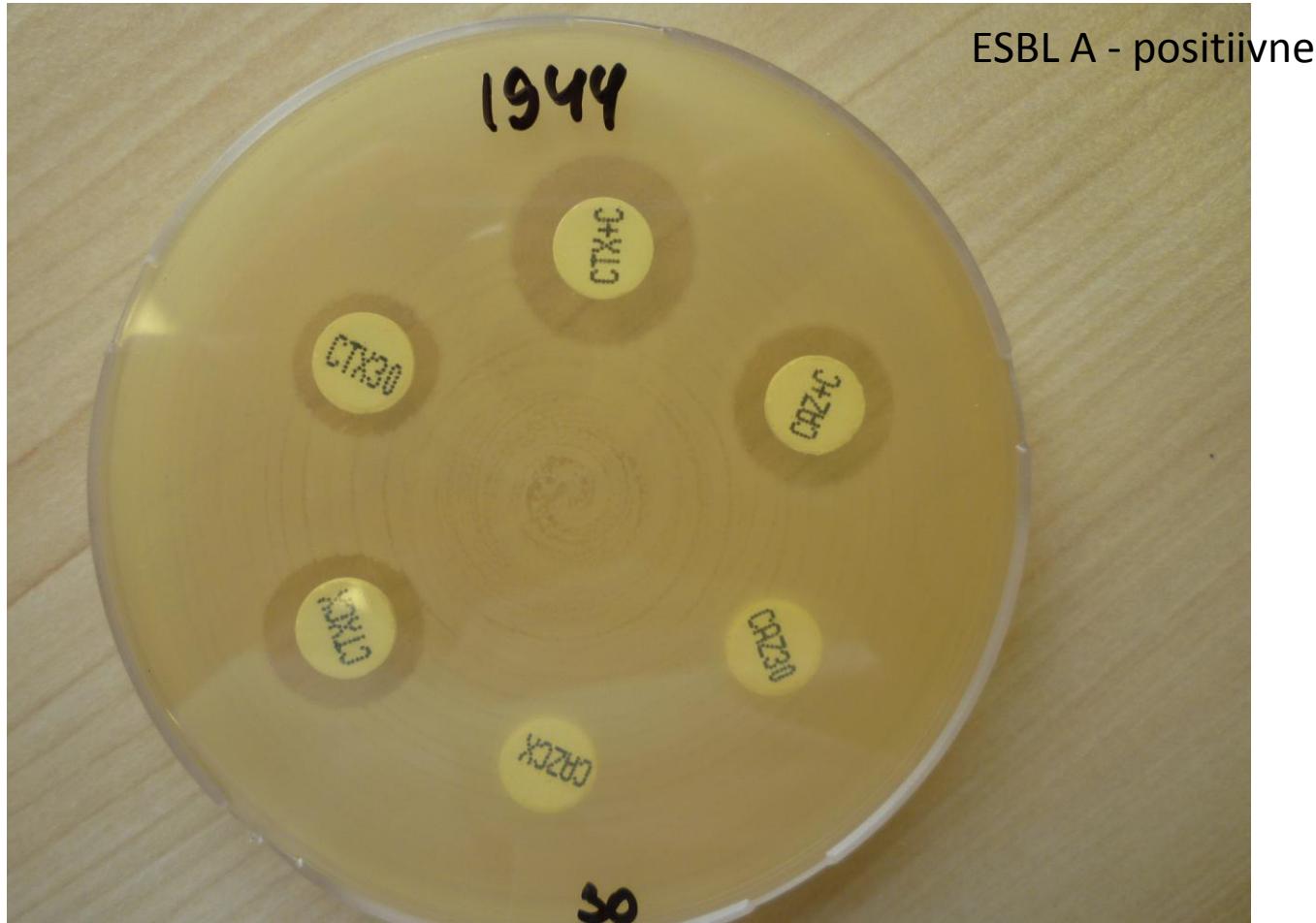
I = intermediate

R = resistant

5 tüvi – *Klebsiella pneumoniae*



5 tüvi – *Klebsiella pneumoniae*



UK NEQAS for Microbiology

International Quality Assessment Service for Microbiology



UK NEQAS for Microbiology PO Box 63003, NW9 1GH
 Tel: + 44 (0)20 8905 9890 Fax: + 44 (0)20 8205 1488 E-mail: organiser@ukneqasmicro.org.uk web: http://www.ukneqasmicro.co.uk

	Specimen Number				
	1945	1946	1947	1948	1949
Agent	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Enterobacter aerogenes
Amikacin	I*	R	R	R*	S
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	S	R	S*	R	R*
Cefepime	R	R	R	R	S
Cefotaxime	R	R	R	R	R
Ceftazidime	R	R	R	R	R
Ciprofloxacin	R	R	R	R	S
Colistin	S	S	S	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	Not assigned	S*	R*	S*
Gentamicin	S	R	R	R	S
Imipenem	R	R	I/R	R*	I
Meropenem	R	R	R	R*	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	Not assigned	R	Not assigned	Not assigned
Tobramycin	R	R	R	R	S
Trimethoprim/Sulfamethoxazole	R*	R*	Not assigned	R*	S*
Carbapenemase gene	VIM	NDM	IMP	NDM	Not applicable

Key: Not assigned = no reference result and no consensus

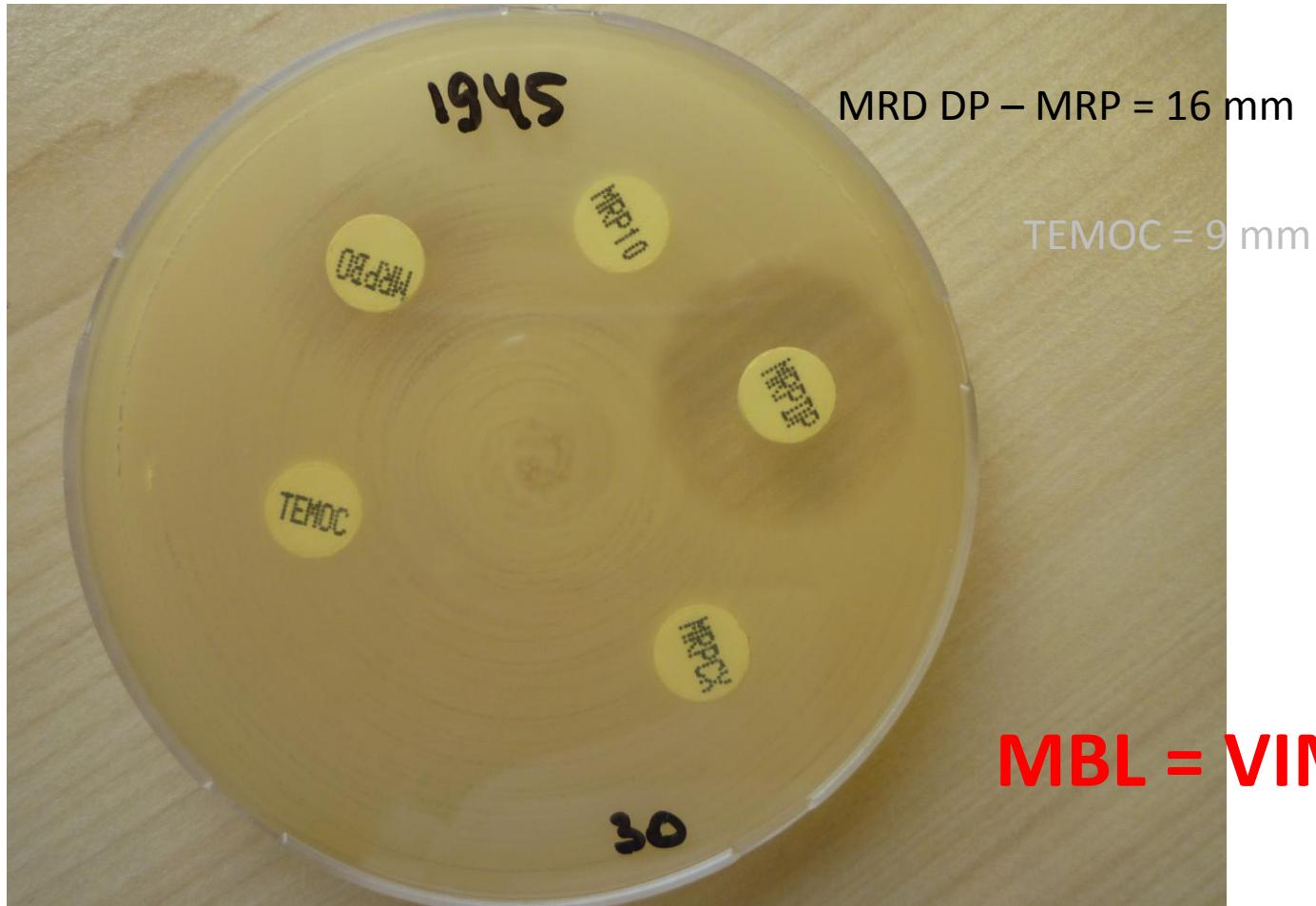
* = consensus result

S = susceptible

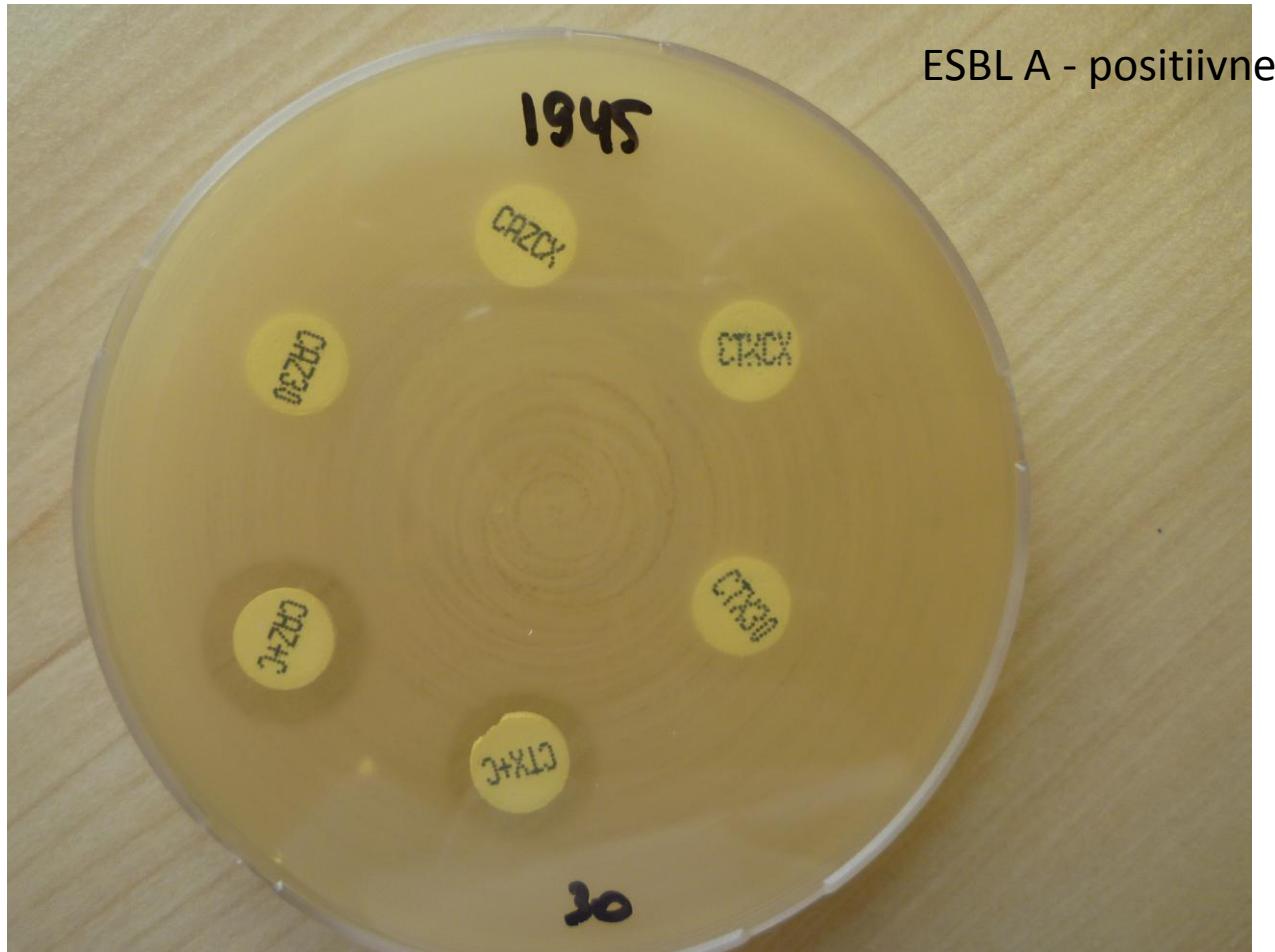
= intermediate

R = resistant

6 tüvi – *Klebsiella pneumoniae*



6 tüvi – *Klebsiella pneumoniae*



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	Specimen Number				
	1945	1946	1947	1948	1949
Agent	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Enterobacter aerogenes</i>
Amikacin	I*	R	R	R*	S
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanic acid	R	R	R	R	R
Aztreonam	S	R	S*	R	R*
Cefepime	R	R	R	R	S
Cefotaxime	R	R	R	R	R
Ceftazidime	R	R	R	R	R
Ciprofloxacin	R	R	R	R	S
Colistin	S	S	S	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	Not assigned	S*	R*	S*
Gentamicin	S	R	R	R	S
Imipenem	R	R	I/R	R*	I
Meropenem	R	R	R	R*	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	Not assigned	R	Not assigned	Not assigned
Tobramycin	R	R	R	R	S
Trimethoprim/Sulfamethoxazole	R*	R*	Not assigned	R*	S*
Carbapenemase gene	VIM	NDM	IMP	NDM	Not applicable

Key: Not assigned = no reference result and no consensus

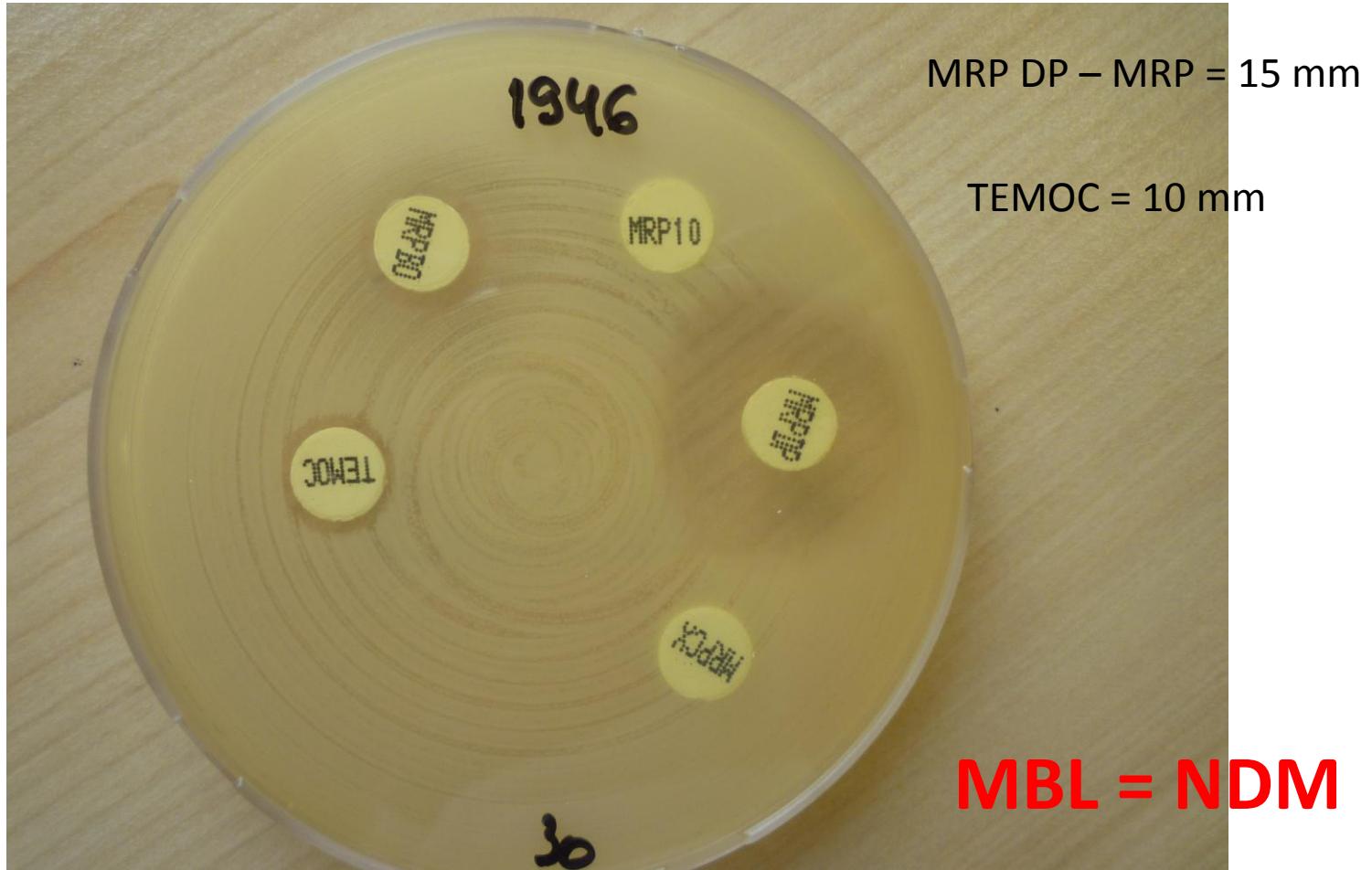
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I = intermediate

R = resistant

7 tüvi – *Klebsiella pneumoniae*



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Agent	Specimen Number				
	1945	1946	1947	1948	1949
Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Enterobacter aerogenes
Amikacin	I*	R	R	R*	S
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanate	R	R	R	R	R
Aztreonam	S	R	S*	R	R*
Cefepime	R	R	R	R	S
Cefotaxime	R	R	R	R	R
Ceftazidime	R	R	R	R	R
Ciprofloxacin	R	R	R	R	S
Colistin	S	S	S	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	Not assigned	S*	R*	S*
Gentamicin	S	R	R	R	S
Imipenem	R	R	I/R	R*	I
Meropenem	R	R	R	R*	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	Not assigned	R	Not assigned	Not assigned
Tobramycin	R	R	R	R	S
Trimethoprim/Sulphamethoxazole	R*	R*	Not assigned	R*	S*
Carbapenemase gene	VIM	NDM	IMP	NDM	Not applicable

Key: Not assigned = no reference result and no consensus

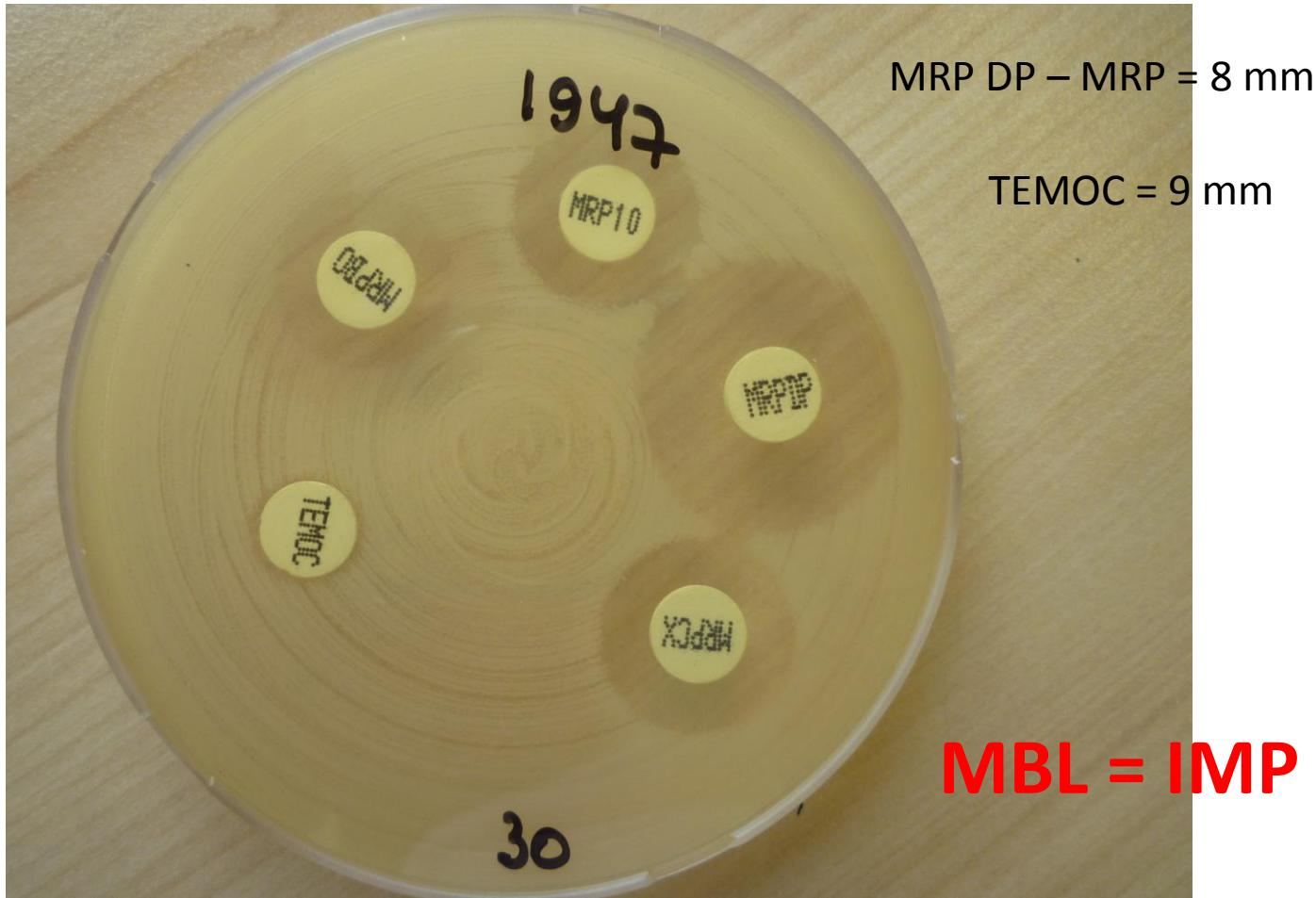
* = consensus result

S = susceptible

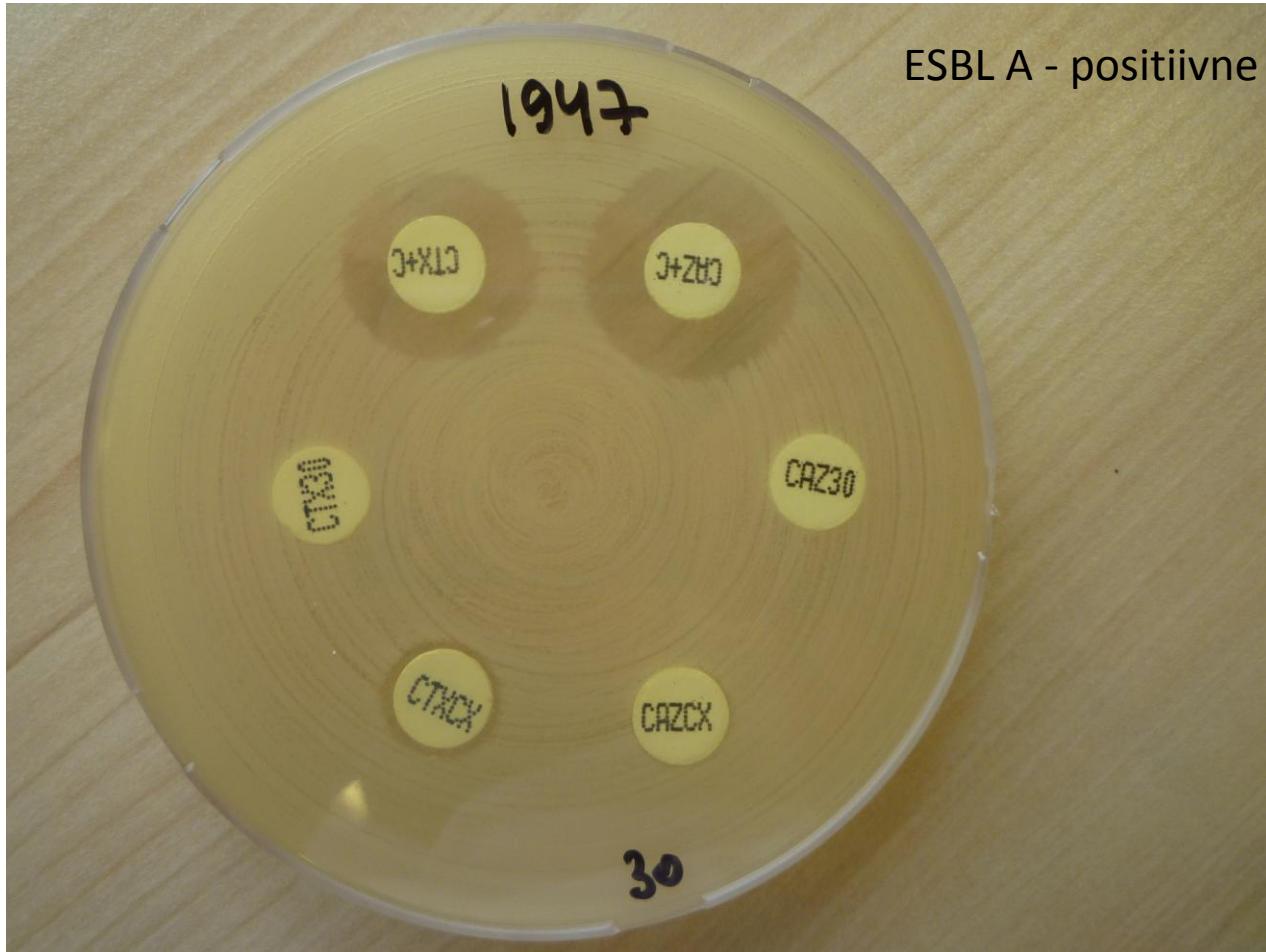
I = intermediate

R = resistant

8 tüvi – *Klebsiella pneumoniae*



8 tüvi – *Klebsiella pneumoniae*



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Agent	Specimen Number				
	1945	1946	1947	1948	1949
<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Klebsiella pneumoniae</i>	<i>Enterobacter aerogenes</i>
Amikacin	I*	R	R	R*	S
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanic acid	R	R	R	R	R
Aztreonam	S	R	S*	R	R*
Cefepime	R	R	R	R	S
Cefotaxime	R	R	R	R	R
Ceftazidime	R	R	R	R	R
Ciprofloxacin	R	R	R	R	S
Colistin	S	S	S	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	Not assigned	S*	R*	S*
Gentamicin	S	R	R	R	S
Imipenem	R	R	I/R	R*	I
Meropenem	R	R	R	R*	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	Not assigned	R	Not assigned	Not assigned
Tobramycin	R	R	R	R	S
Trimethoprim/Sulfamethoxazole	R*	R*	Not assigned	R*	S*
Carbapenemase gene	VIM	NDM	IMP	NDM	Not applicable

Key: Not assigned = no reference result and no consensus

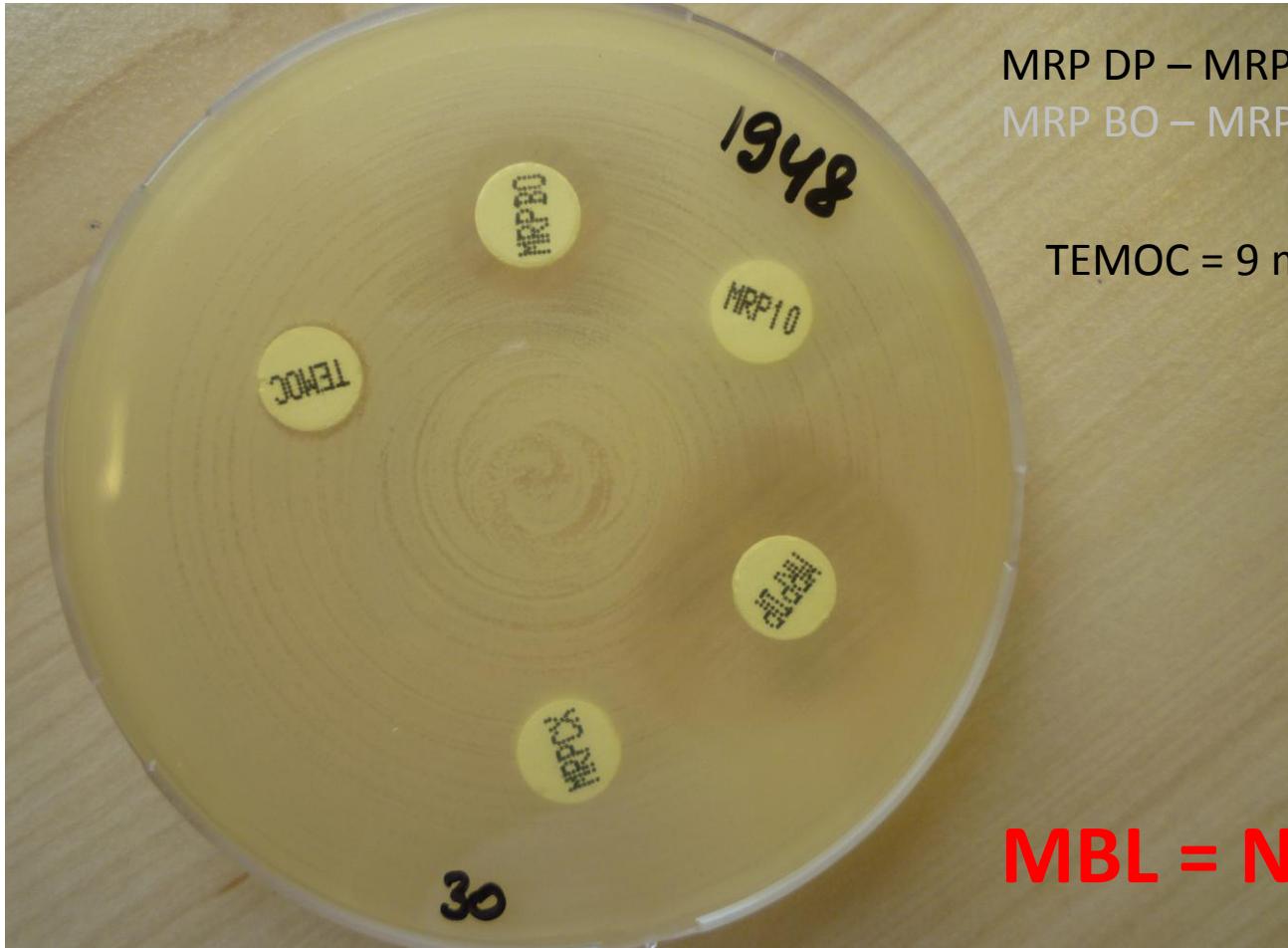
* = consensus result

S = susceptible

I = intermediate

R = resistant

9 tüvi – *Klebsiella pneumoniae*



9 tüvi – *Klebsiella pneumoniae*



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Agent	Specimen Number				
	1945	1946	1947	1948	1949
Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Klebsiella pneumoniae	Enterobacter aerogenes
Amikacin	I*	R	R	R*	S
Amoxicillin	R	R	R	R	R
Amoxicillin/Clavulanic acid	R	R	R	R	R
Aztreonam	S	R	S*	R	R*
Cefepime	R	R	R	R	S
Cefotaxime	R	R	R	R	R
Ceftazidime	R	R	R	R	R
Ciprofloxacin	R	R	R	R	S
Colistin	S	S	S	S	S
Ertapenem	R	R	R	R	R
Fosfomycin	S*	Not assigned	S*	R*	S*
Gentamicin	S	R	R	R	S
Imipenem	R	R	I/R	R*	I
Meropenem	R	R	R	R*	I
Piperacillin-Tazobactam	R	R	R	R	R
Tigecycline	Not assigned	Not assigned	R	Not assigned	Not assigned
Tobramycin	R	R	R	R	S
Trimethoprim/Sulfamethoxazole	R*	R*	Not assigned	R*	S*
Carbapenemase gene	VIM	NDM	IMP	NDM	Not applicable

Key: Not assigned = no reference result and no consensus

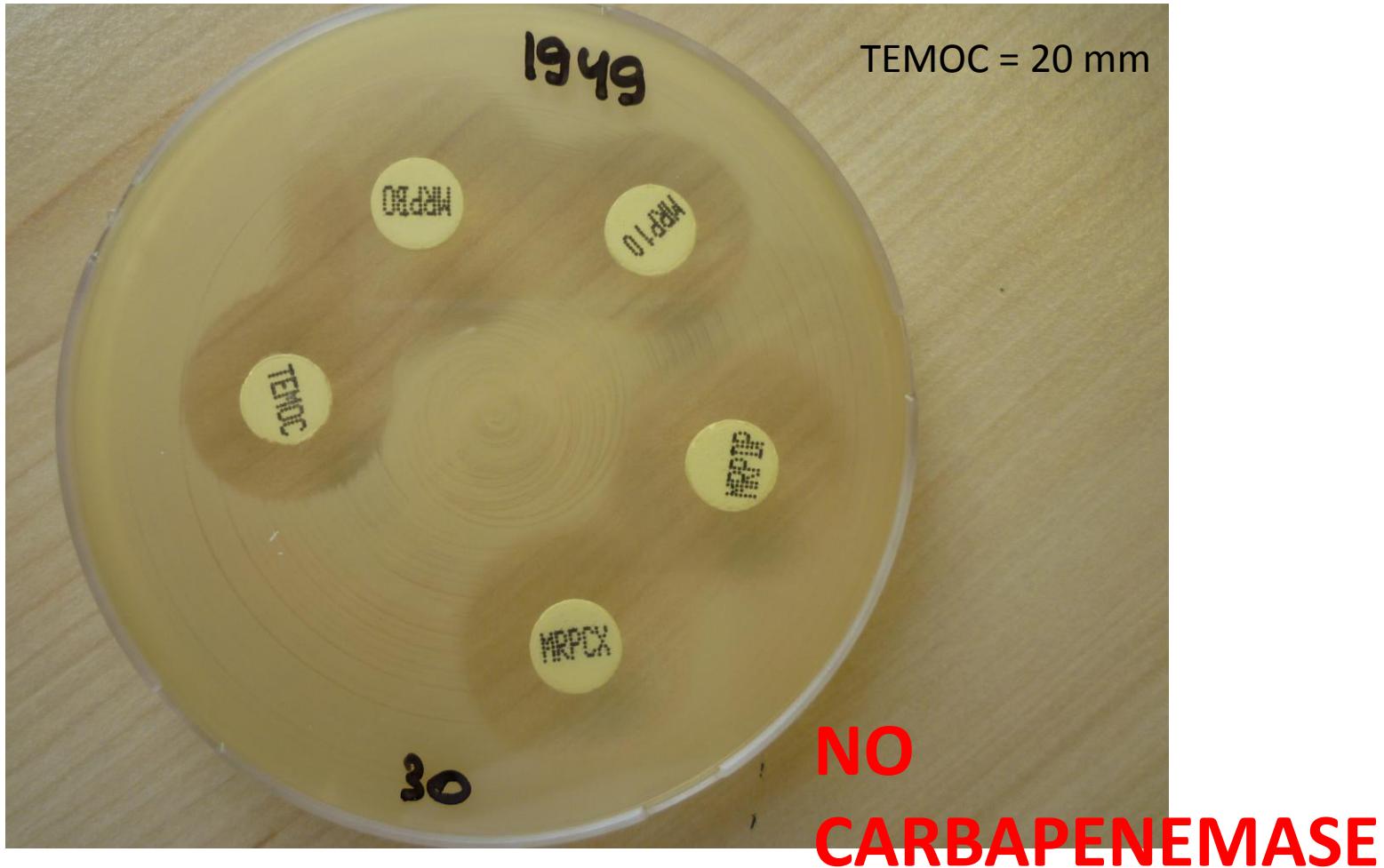
* = consensus result

S = susceptible

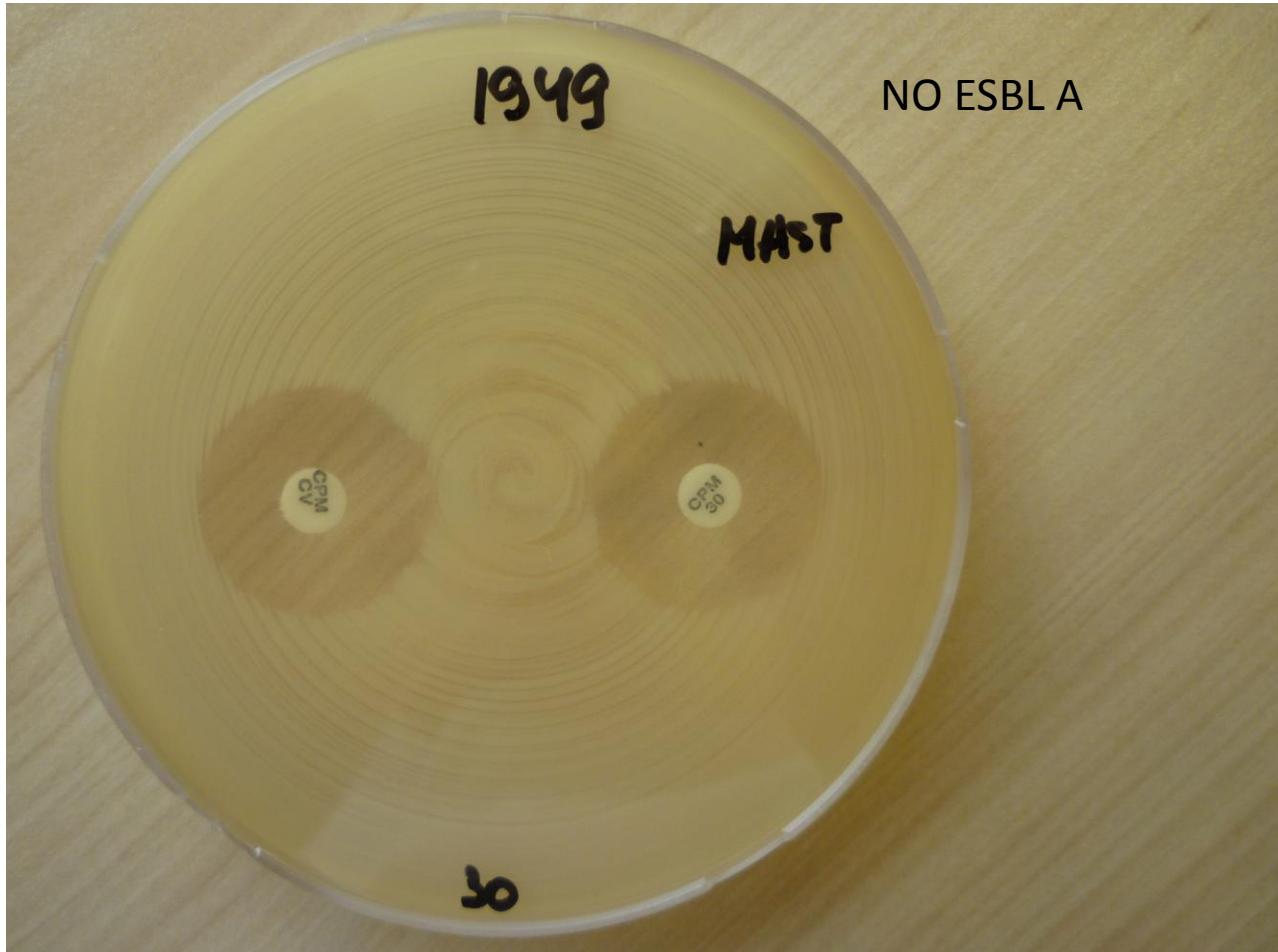
I = intermediate

R = resistant

10 tüvi – *Enterobacter aerogenes*



10 tüvi – *Enterobacter aerogenes*



Kontrolltüved

- Molekulaarsed tulemused Anastasia presentatsioonis
- Tüved on ITK kollektsoonis sügavkülmutatud
- Karbapeneemi olemasolu esmases antibiogrammis on tähtis (OXA – 48 type)
- Eesti score EQA – 100 %
- Euroopa tulemused...