Evolutie in antibioticumresistentie bij pathogenen afkomstig van voedselproducerende diersoorten in België

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Marc Saulmont, ARSIA asbl

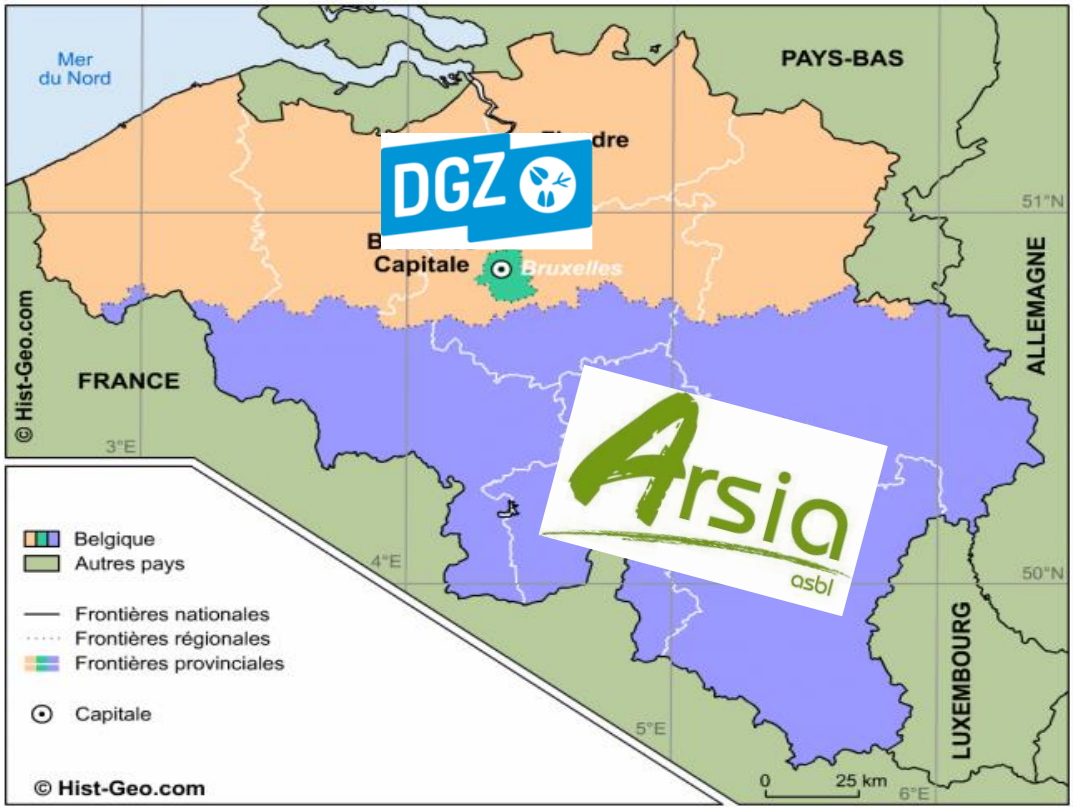
AMCRA, 22 juni 2021

Plan

- Inleiding
- Evolutie bij varkens
- Evolutie bij rundvee
- Evolutie bij pluimvee
- Cijfers van MCC
- Conclusies

Regionale eerste lijnslaboratoria

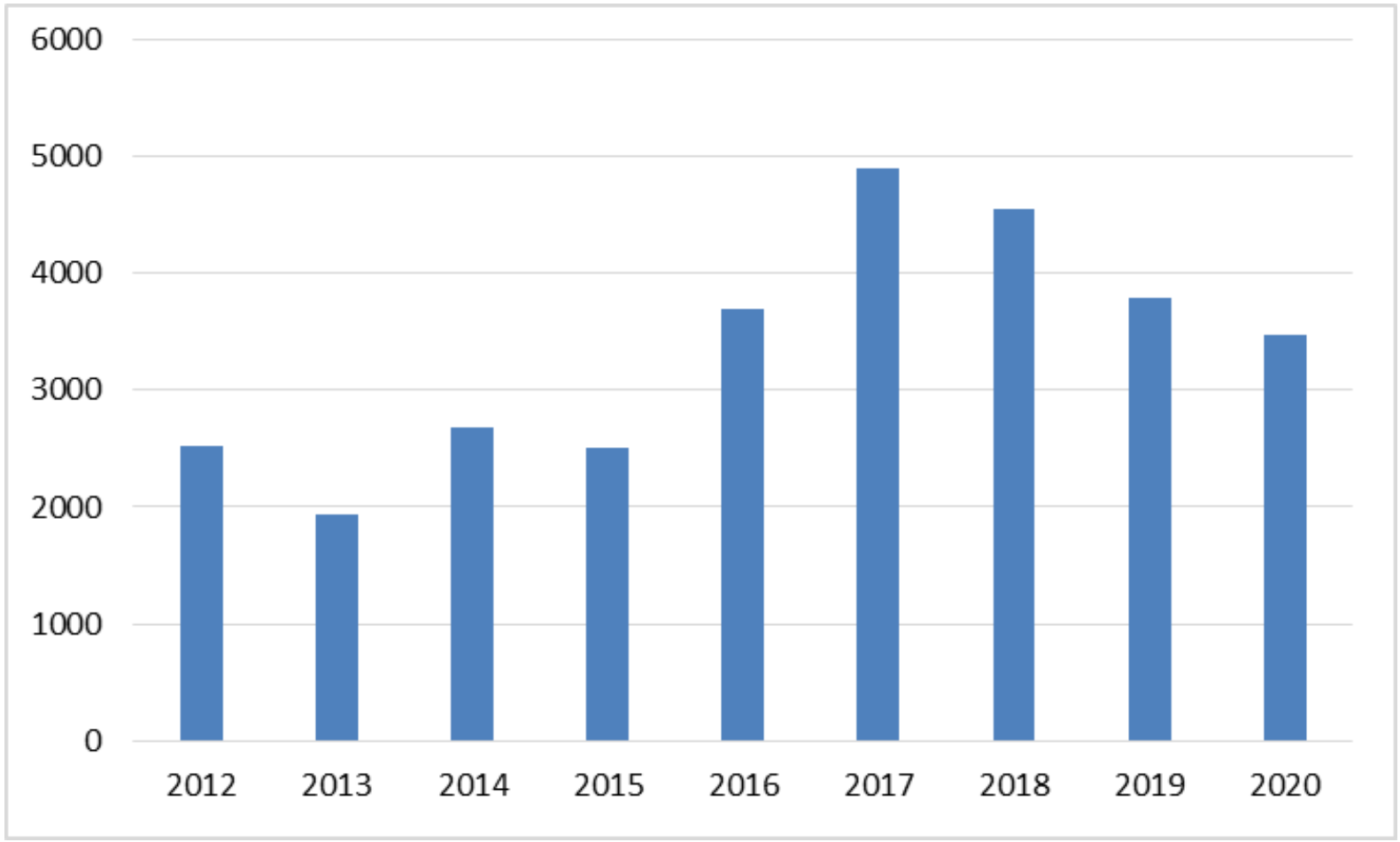
DGZ: Dierengezondheidzorg, Vlaanderen



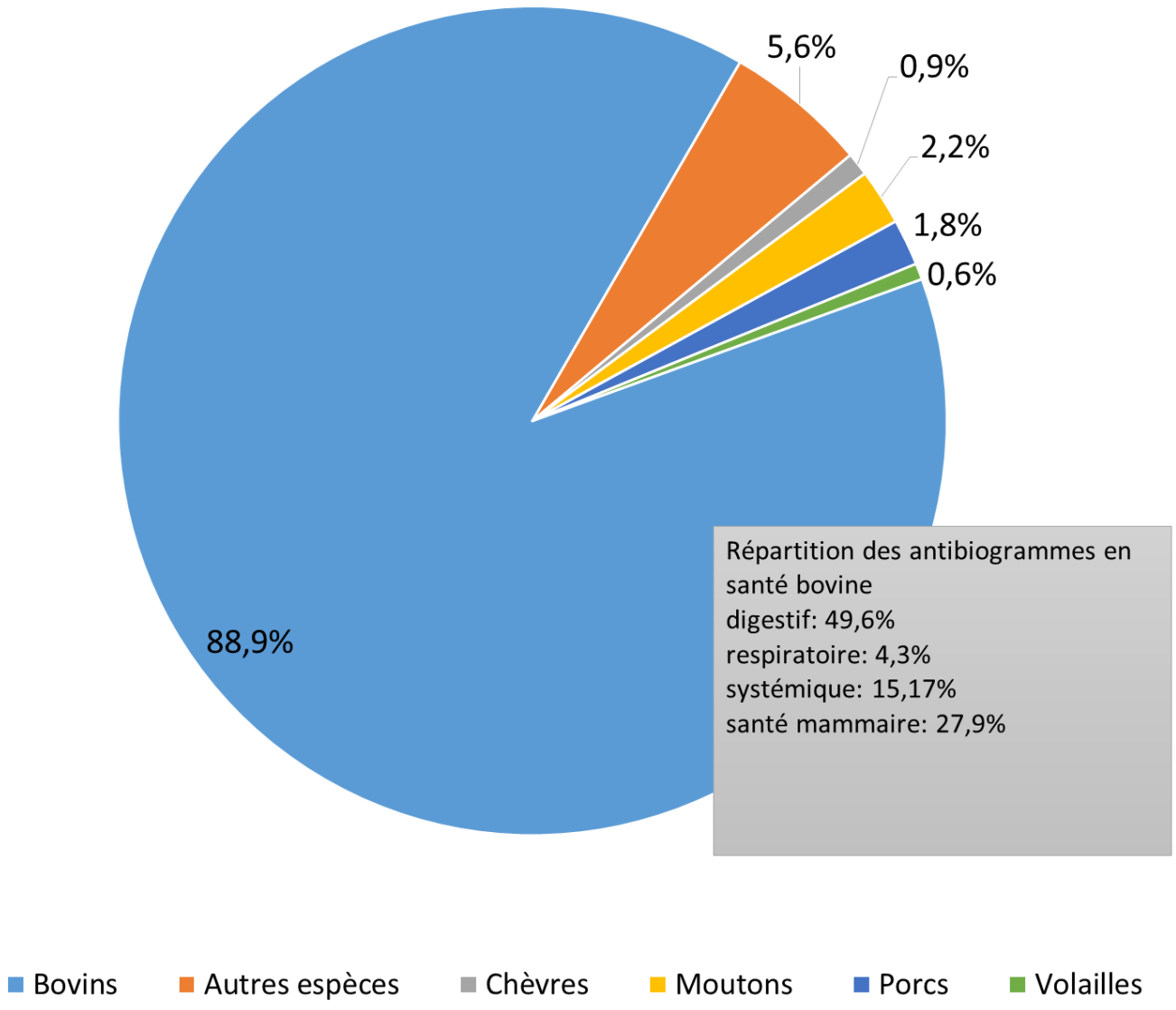
ARSIA asbl: Association régionale de santé et d'identification animale, Wallonie

Methode

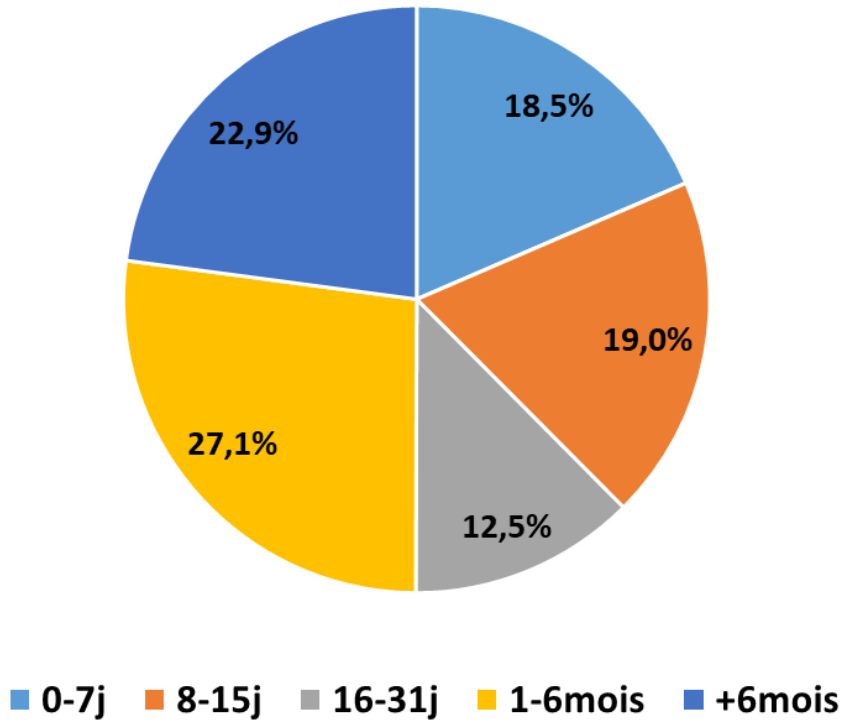
- Uitsluitend antibiogrammen door diffusie in gelose
- Norm AFNOR UN 47-107
- Referentie CA SFM vétérinaire
- Geaccrediteerd


6000
5000
4000
3000
2000
1000
0
2012
2013
2014
2015
2016
2017
2018
2019
2020

Essentiellement en production bovine

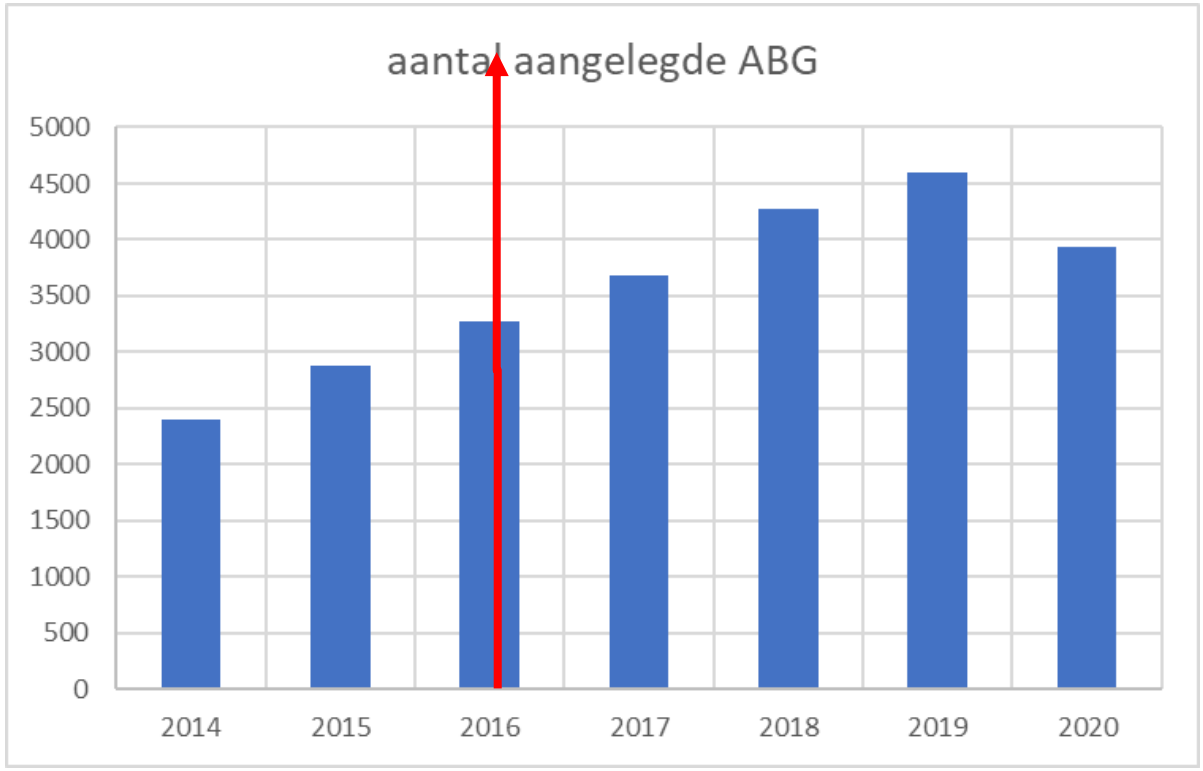


Hoofdzakelijk in de rundveesector

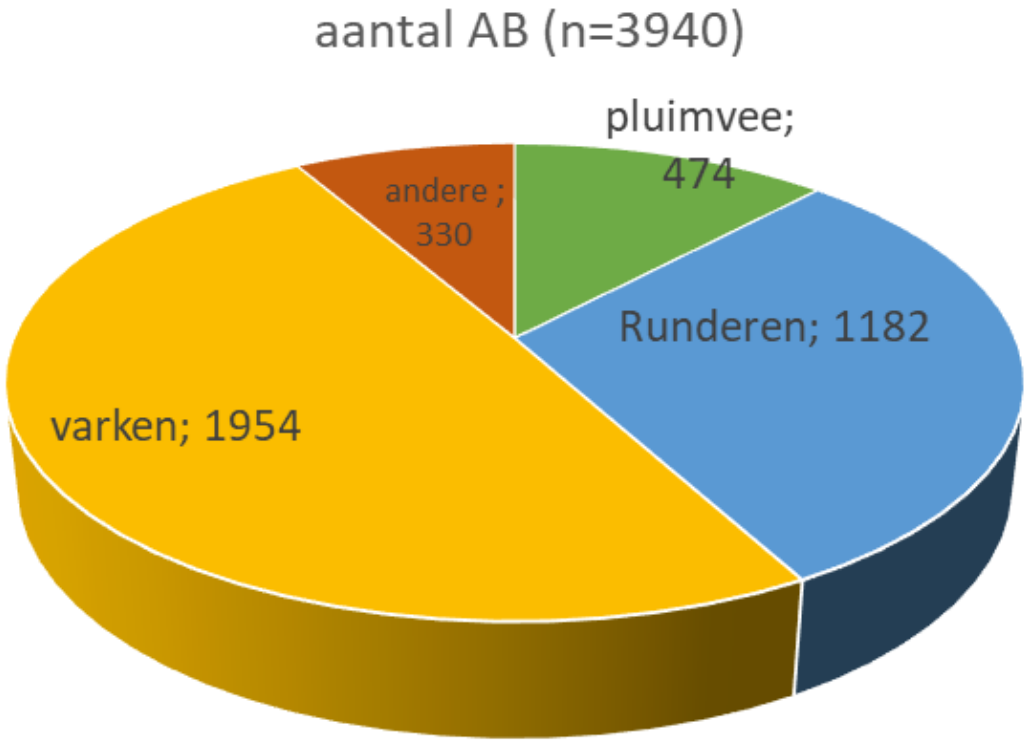


Aantal aangelegde antibiogrammen in DGZ

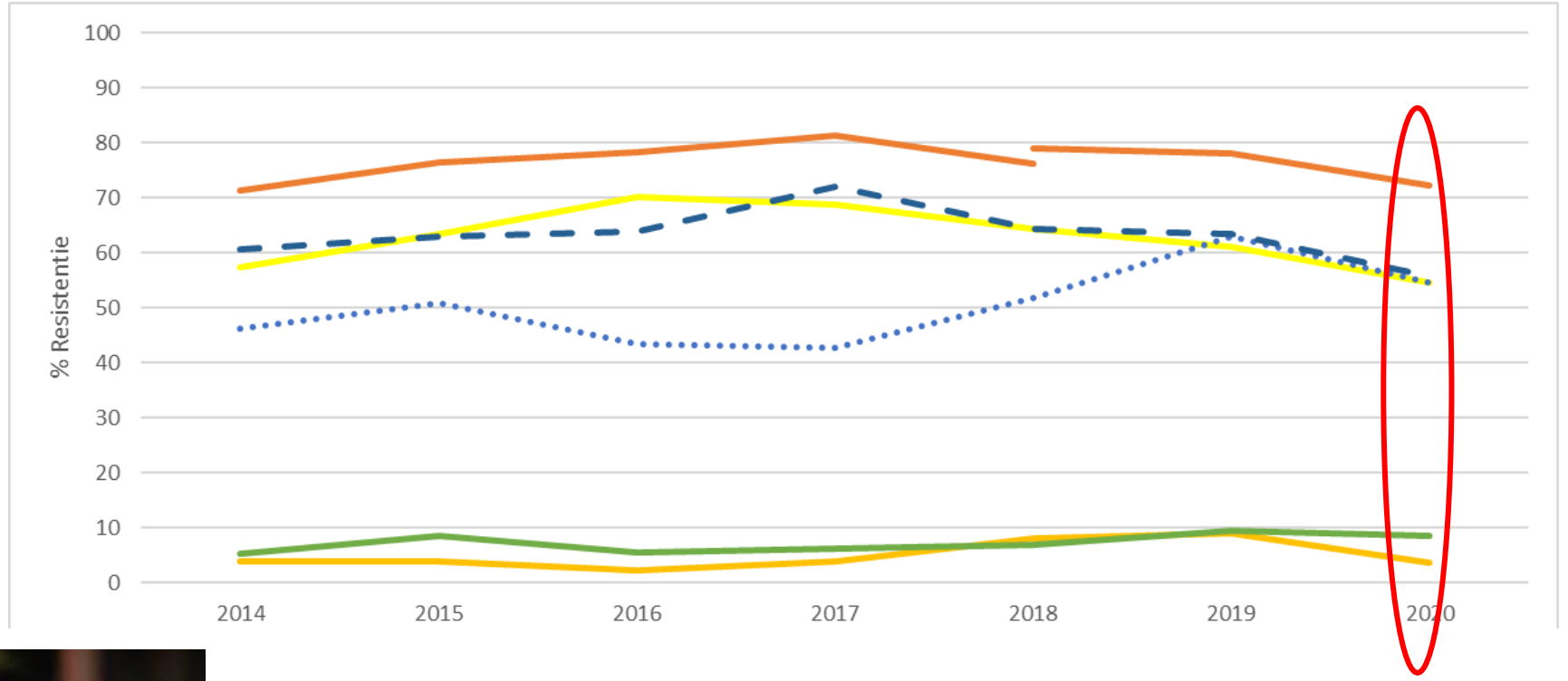
KB
21 juli 2016



Verdeling van het aantal antibiogrammen per diersoort in 2020 (DGZ)

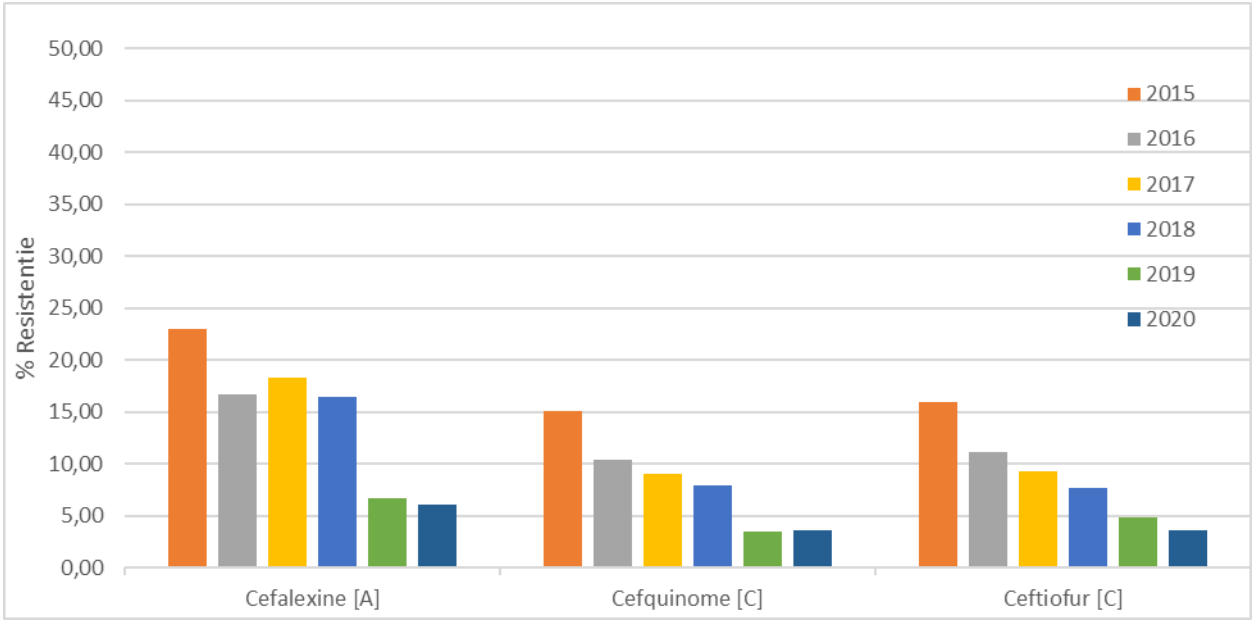


E. coli in de varkensproductie



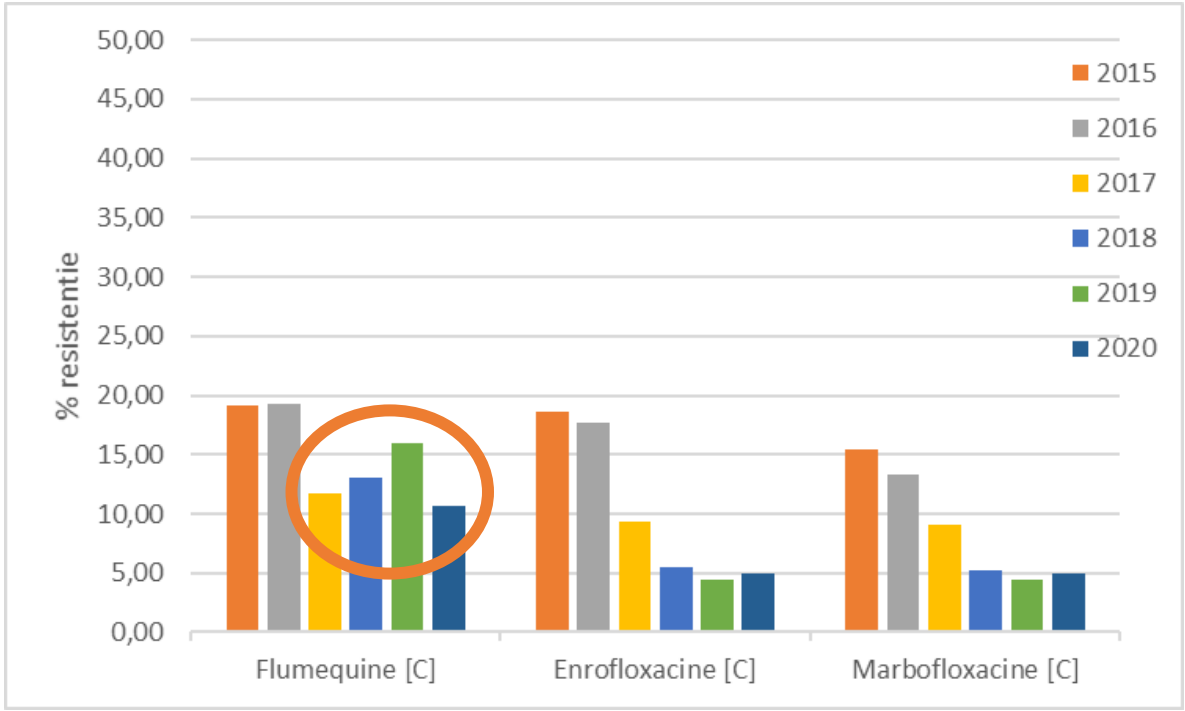
E. coli bij varken
Evolutie van R tov cefalosporines

Jaar	2015	2016	2017	2018	2019	2020
Aantal	470	385	411	342	314	282



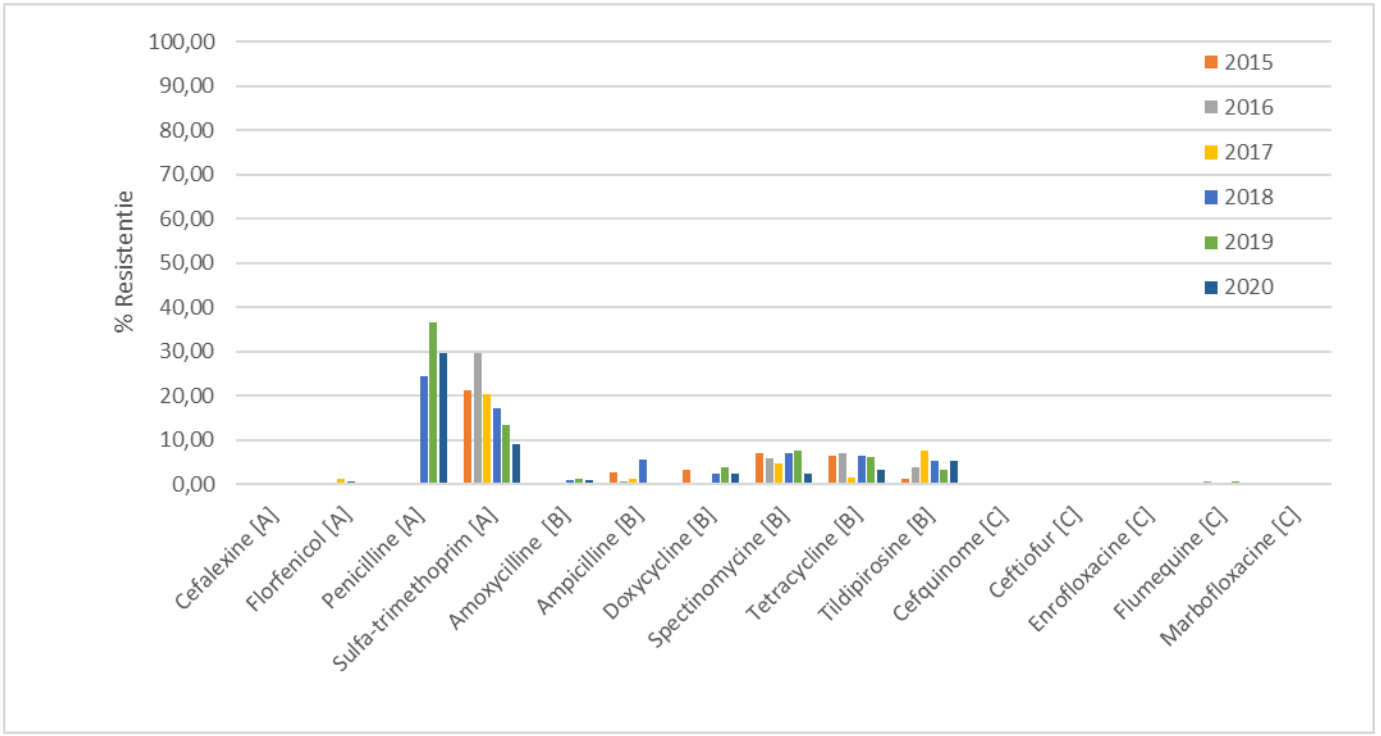
E. coli bij varken
Evolutie van R tov fluoroquinolones

Jaar	2015	2016	2017	2018	2019	2020
Aantal	470	385	411	342	314	282



P. multocida in de varkensproductie

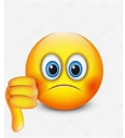
Jaar	2015	2016	2017	2018	2019	2020
Aantal	183	155	187	204	281	212



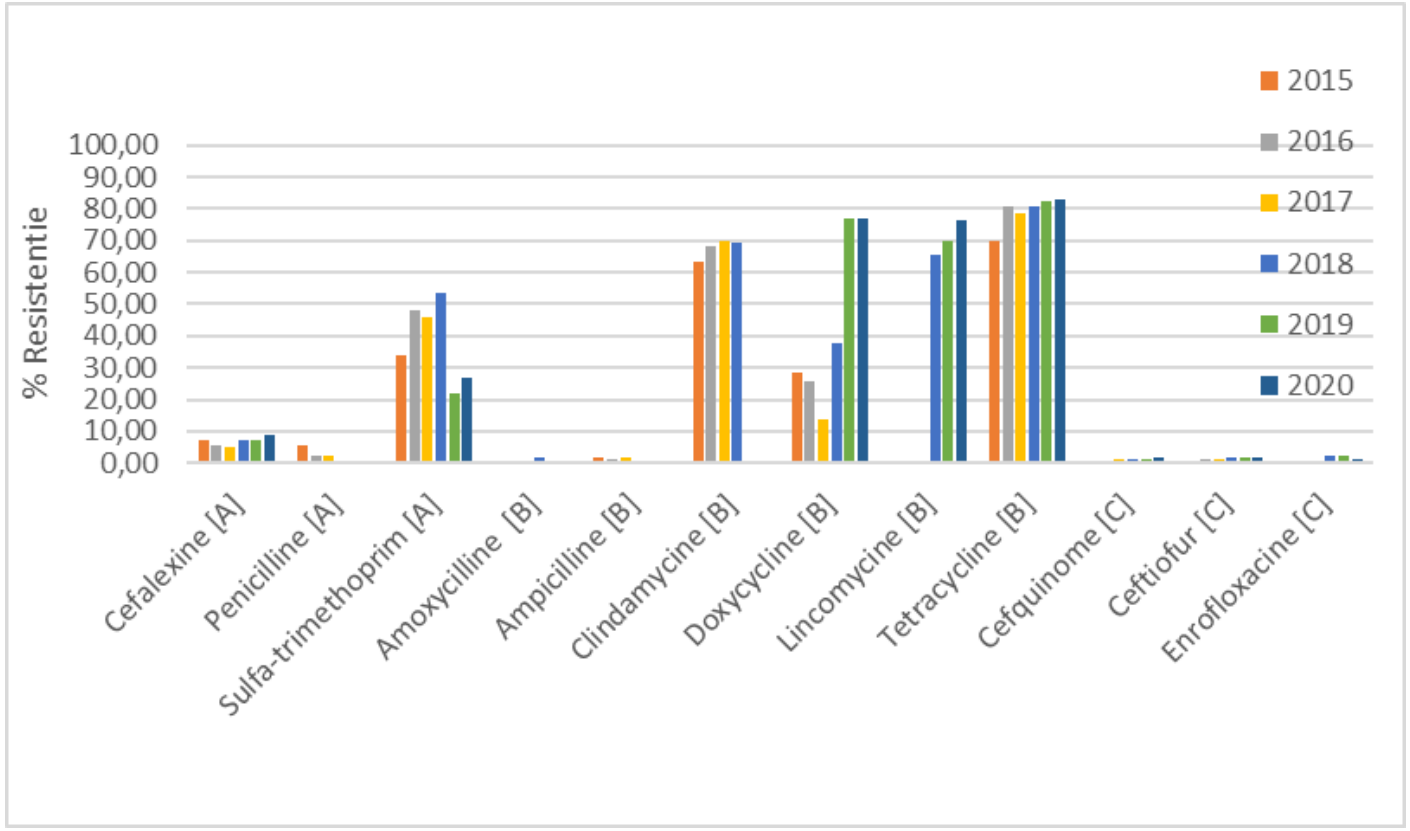
S. suis in de varkensproductie

Jaar	2015	2016	2017	2018	2019	2020
Aantal	241	296	400	511	572	647

Penicilline R 

Sulfa-trimethoprim 

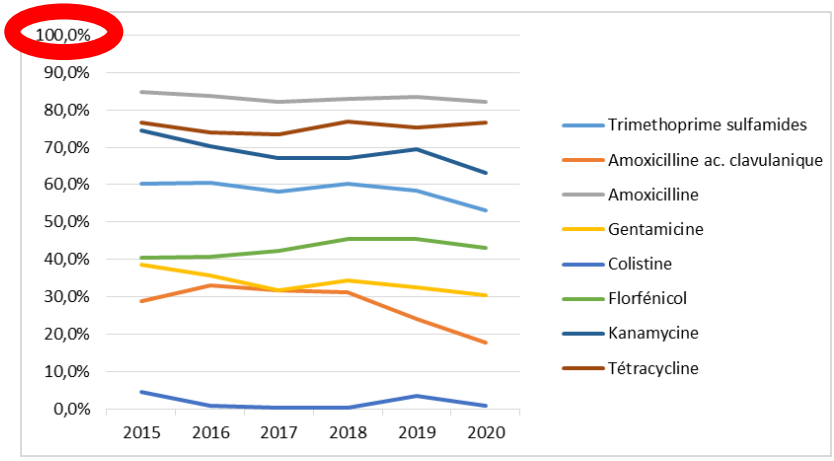
Lincomycine en Tetracyclines



Escherichia coli

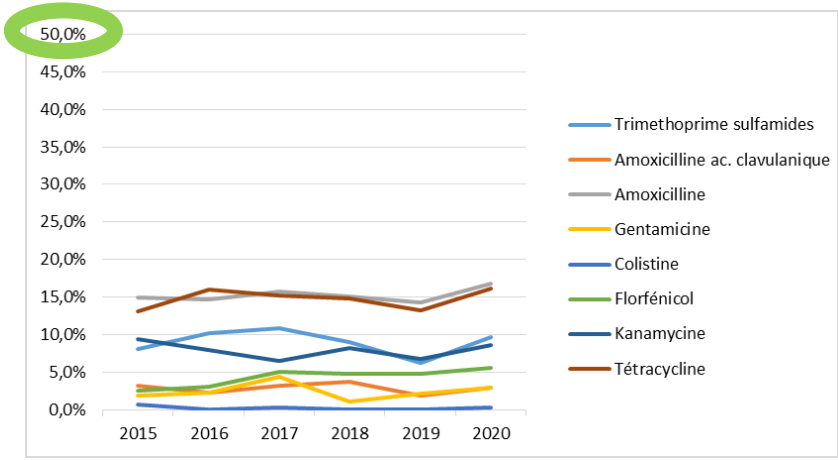
Gastro-intestinaal, respiratoir, septicaemie

2015	2016	2017	2018	2019	2020
693	1491	2073	1870	1401	1091



Uiergezondheid

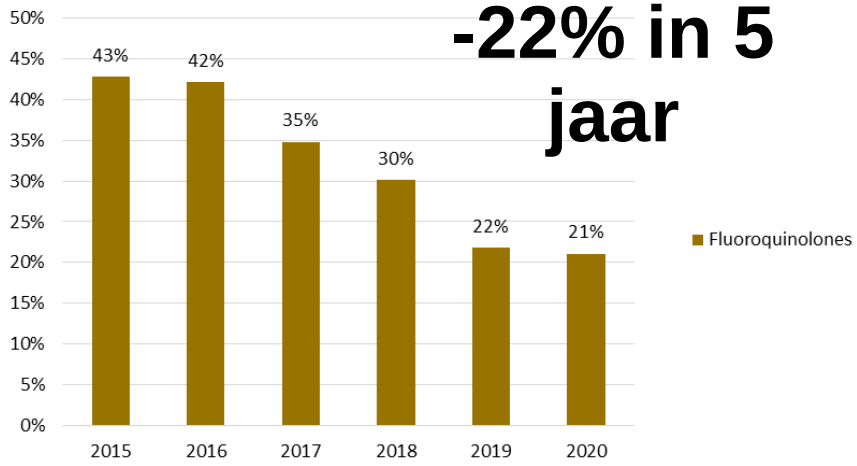
2015	2016	2017	2018	2019	2020
160	227	414	465	397	416



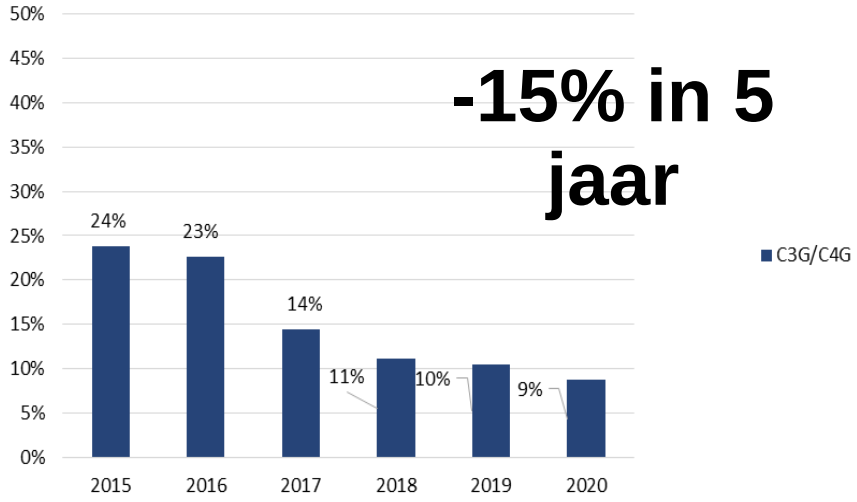
Escherichia coli

Gastro-intestinaal, respiratoir, septicaemie

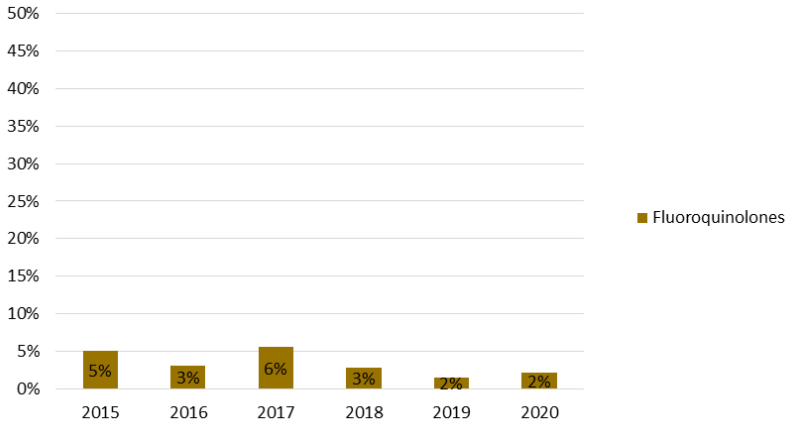
-22% in 5 jaar

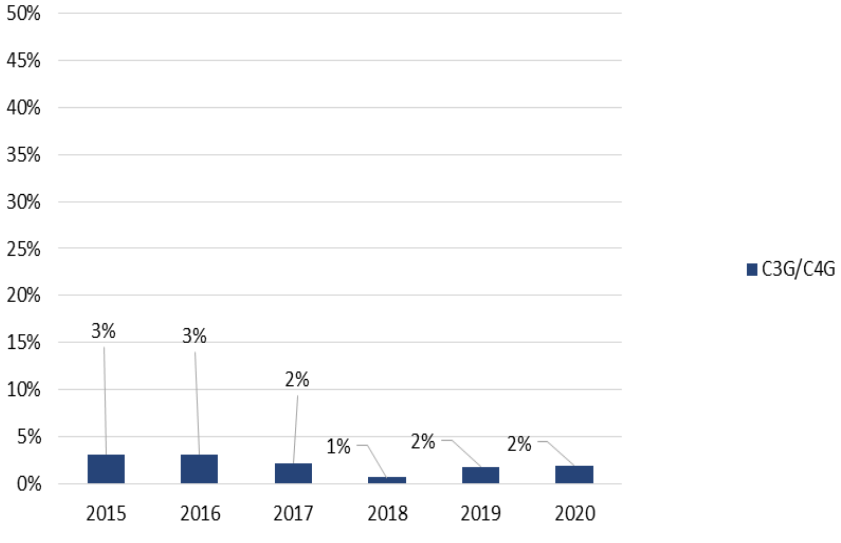


-15% in 5 jaar



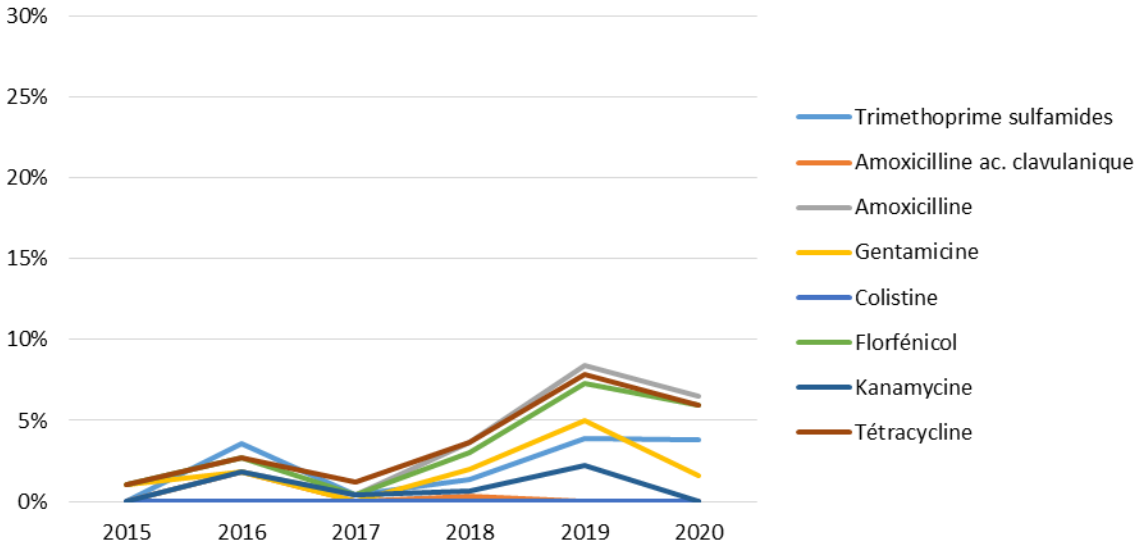
Uiergezondheid



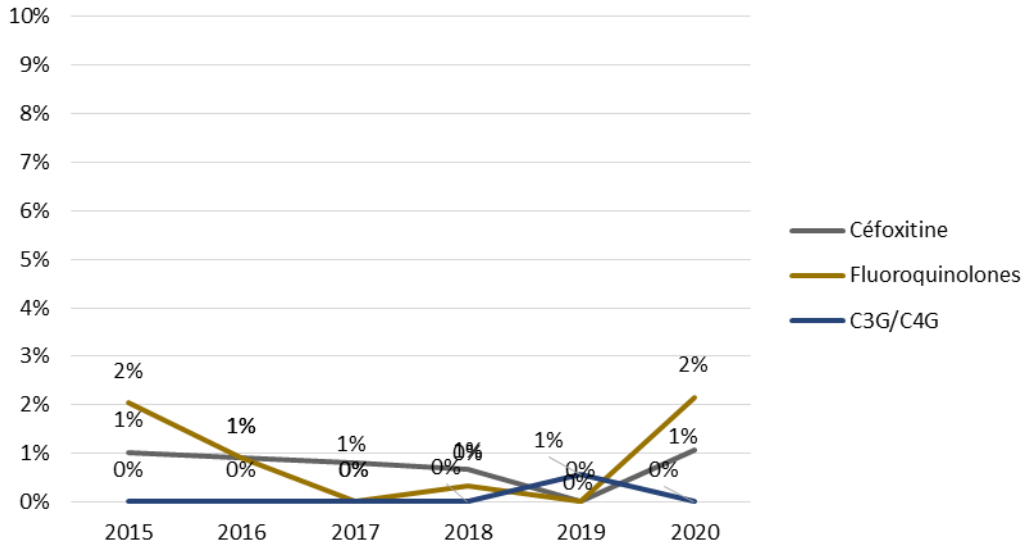


Salmonella Dublin

2015	2016	2017	2018	2019	2020
98	111	249	299	179	185



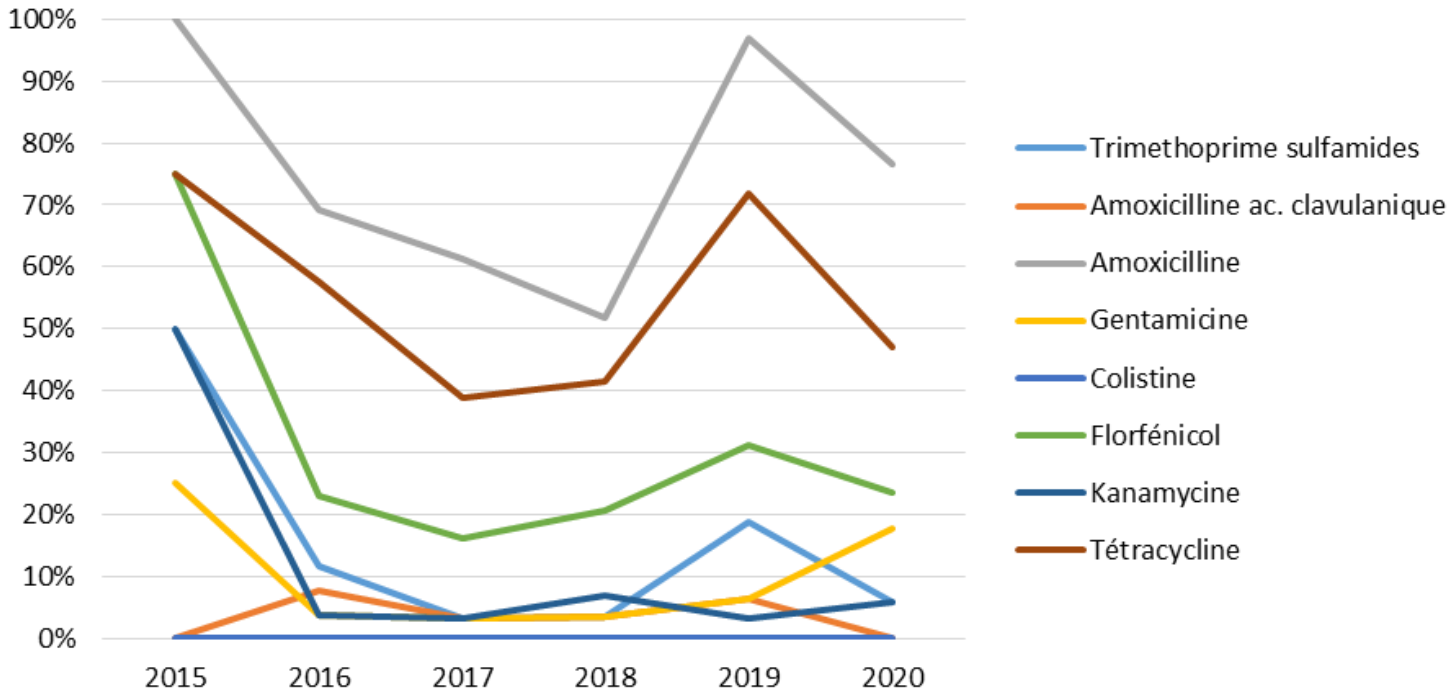
AMX, TE, FF



Salmonella Typhimurium

2015	2016	2017	2018	2019	2020
4	26	31	29	32	17

Fluoroquinolones	0%
C3G/C4G	0%

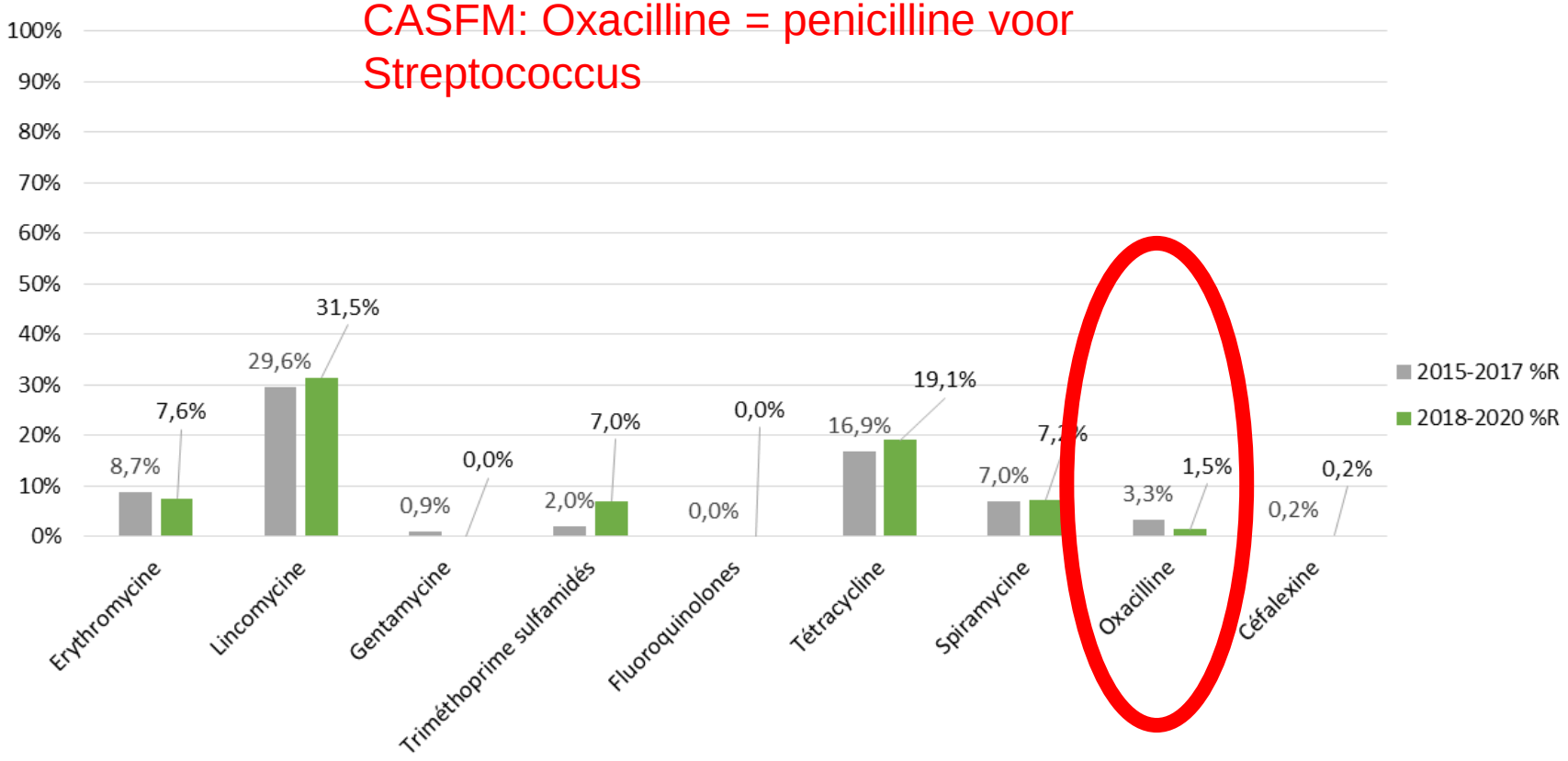


	2015	2016	2017	2018	2019	2020
Streptococcus uberis	13,8%	16,5%	17,9%	16,0%	15,1%	18,3%
Escherichia coli	11,1%	10,6%	14,1%	16,8%	17,4%	16,3%
Staphylococcus aureus	7,7%	7,6%	7,5%	6,7%	9,4%	8,8%
Staphylococcus coa neg	5,2%	6,7%	7,7%	7,4%	8,4%	6,4%
Streptococcus dysgalactiae	3,9%	3,8%	4,3%	4,5%	4,9%	5,1%
Streptococcus agalactiae	1,3%	0,4%	0,5%	0,3%	0,2%	0,1%

Streptococcus uberis

2015	2016	2017	2018	2019	2020
144	251	396	340	263	336

CASFM: Oxacilline = penicilline voor Streptococcus



Staphylococcus aureus

2015	2016	2017	2018	2019	2020
54	109	131	150	118	164

	2015	2016	2017	2018	2019	2020
Streptococcus uberis	13,8%	16,5%	17,9%	16,0%	15,1%	18,3%
Escherichia coli	11,1%	10,6%	14,1%	16,8%	17,4%	16,3%
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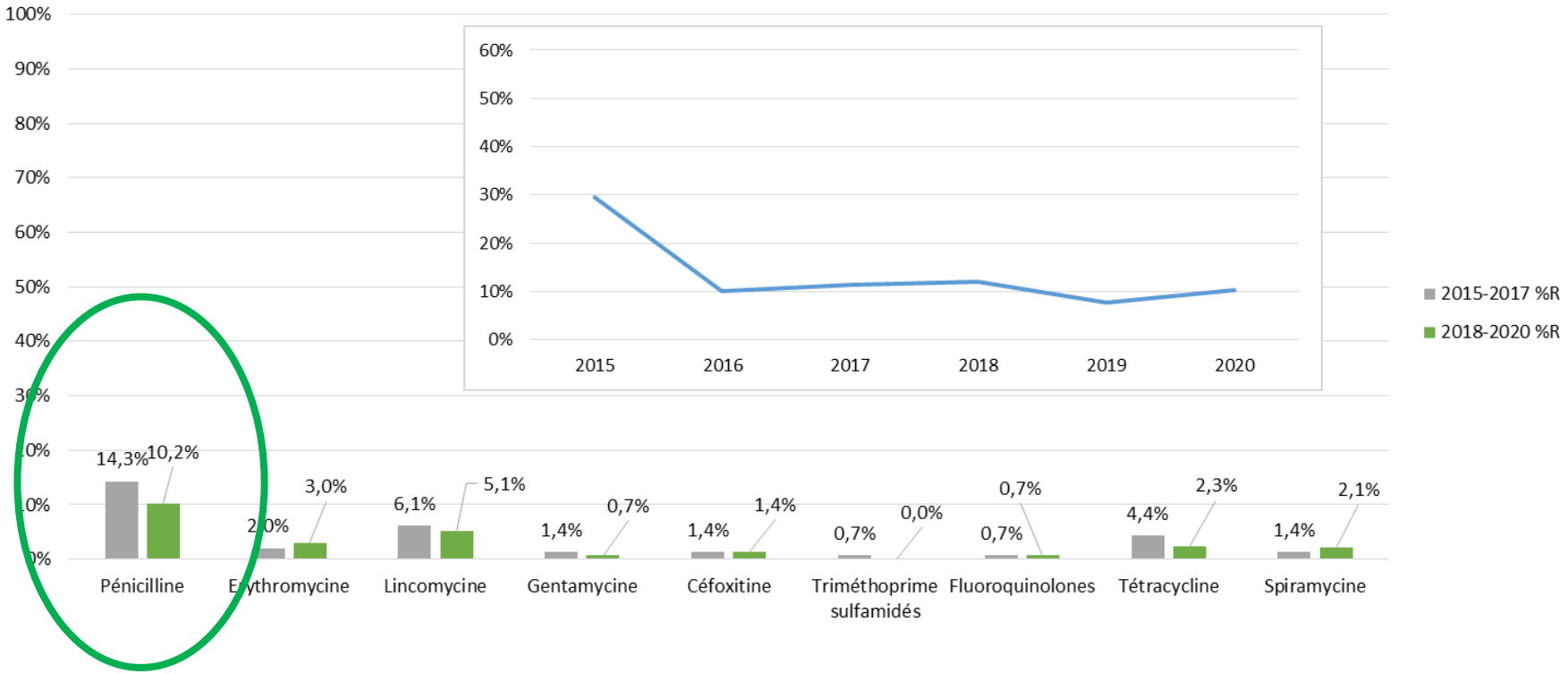
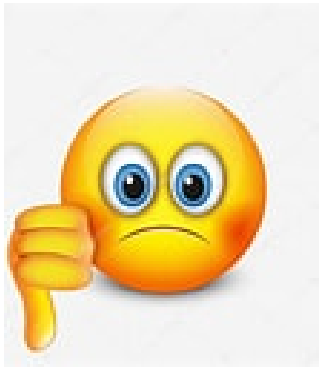
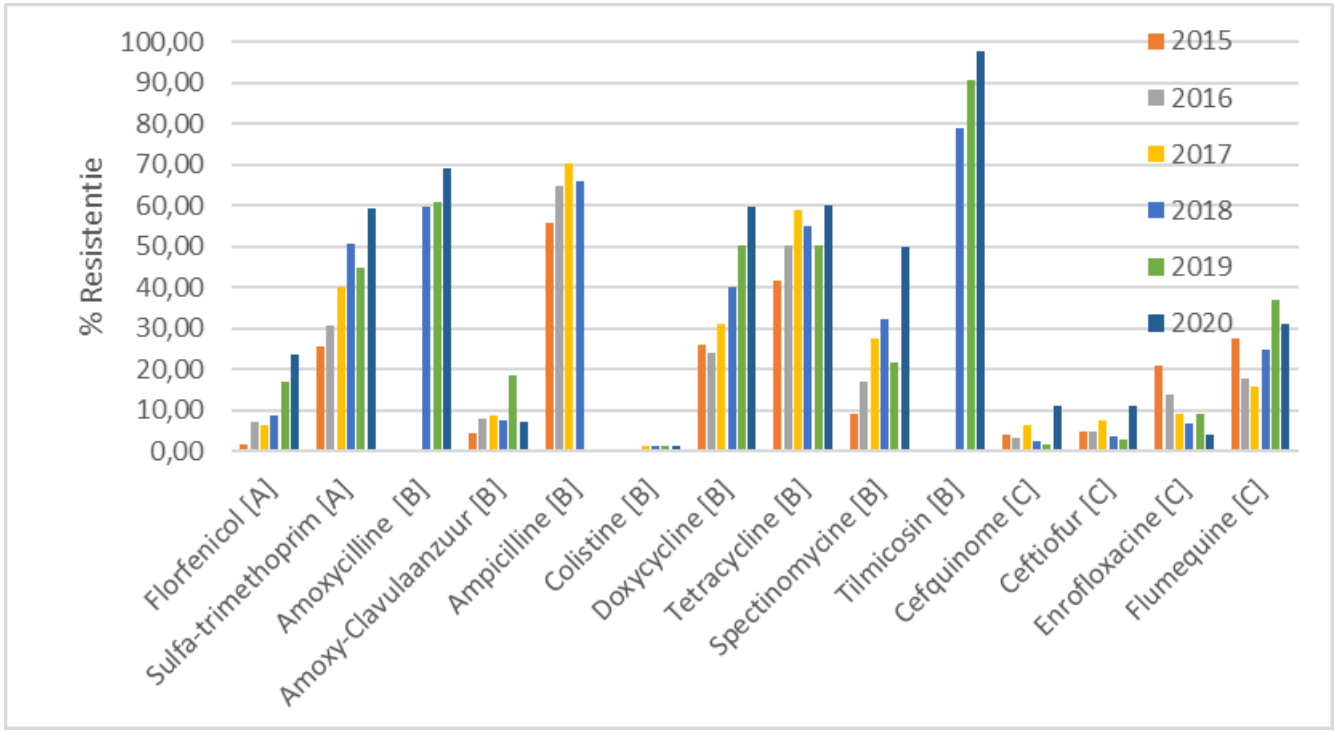
Streptococcus agalactiae	1,3%	0,4%	0,5%	0,3%	0,2%	0,1%



E. coli in pluimvee

Jaar	2015	2016	2017	2018	2019	2020
Aantal	236	234	378	449	381	297





E. coli in pluimvee

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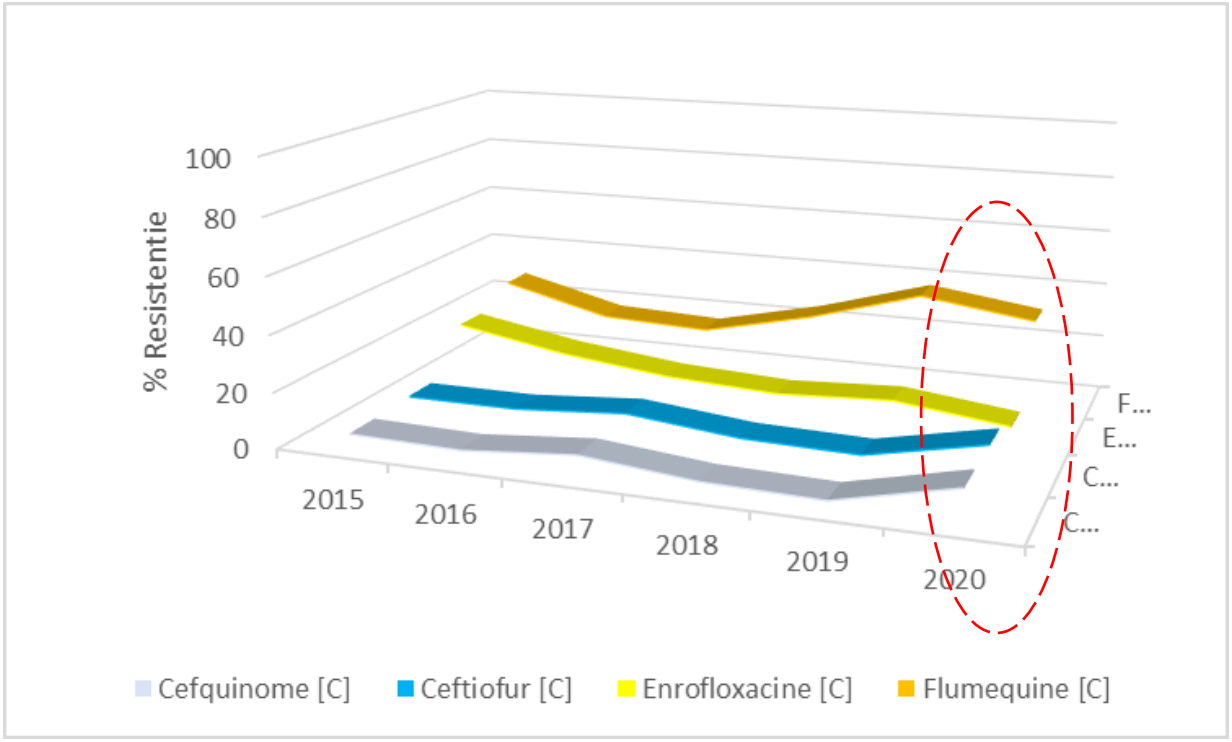
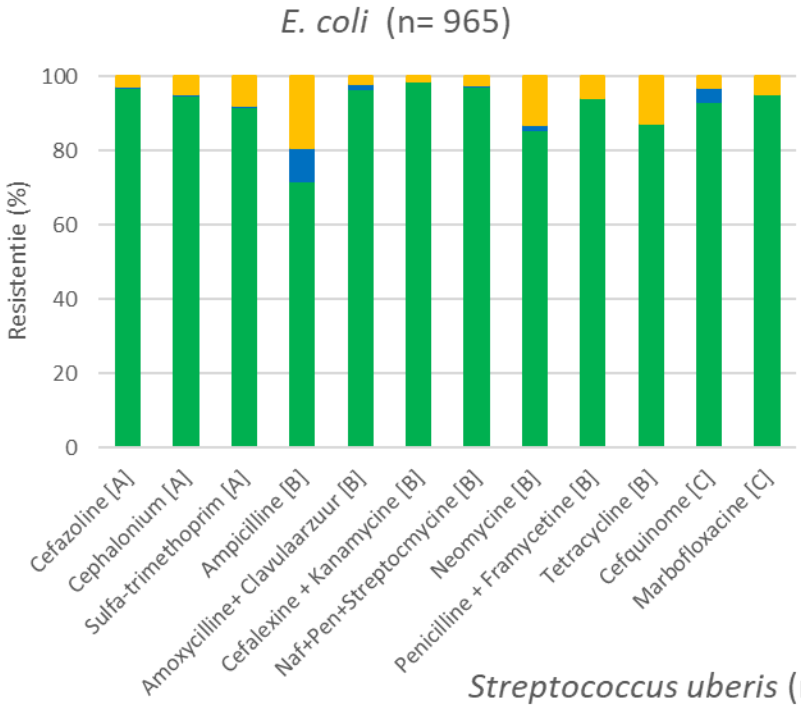
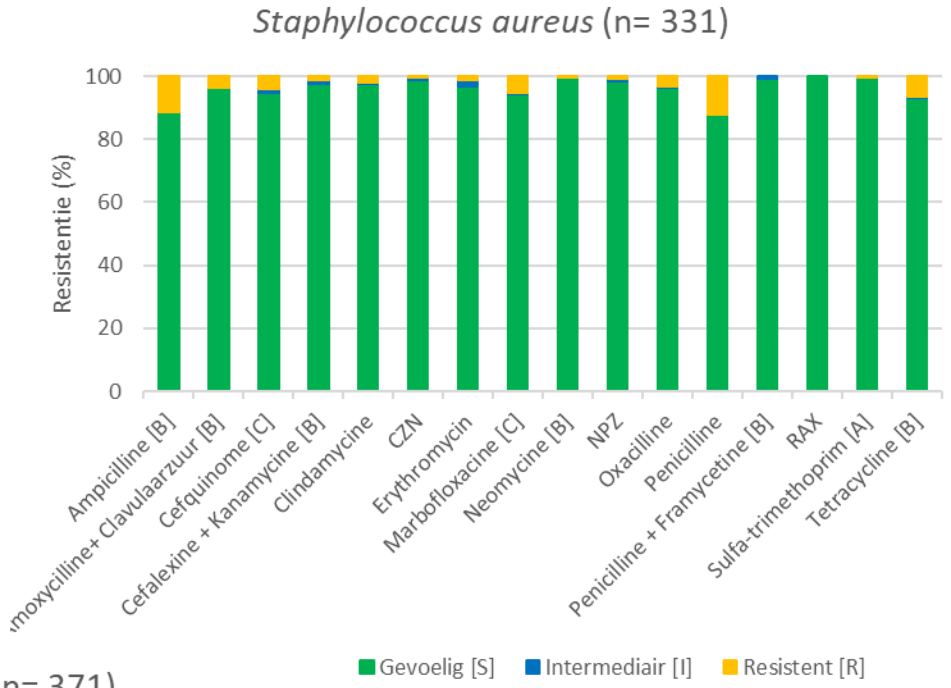
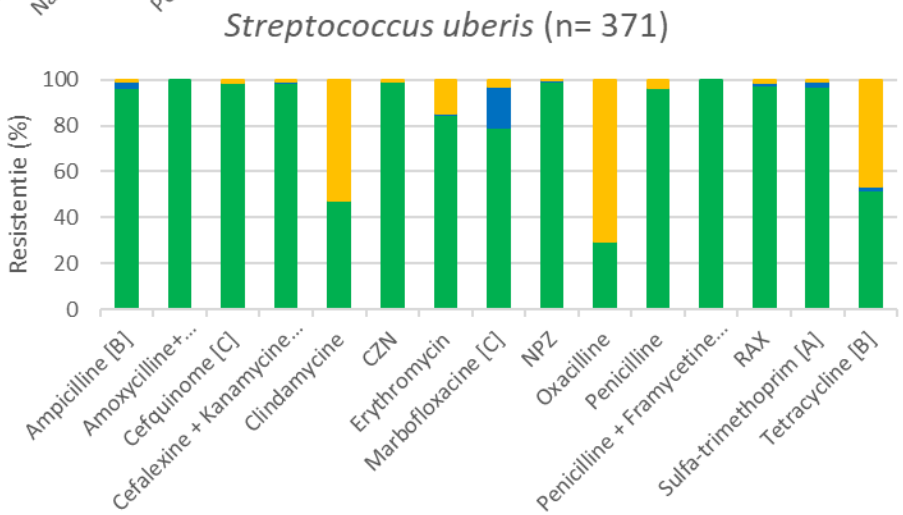
Aantal	236	234	378	449	381	297



Klinische mastitis *data 2019*







Resistentie bij *E. coli* en *S.aureus* is laag
Bij *S. uberis* hoge resistentie tov clindamycine, tetracycline en oxacilline
Stabiele trend

Conclusies

Het aantal aanvragen om een antibiogram aan te leggen is gestegen sinds de publicatie van het KB

- Cephalosporines: dalende resistentie gezien bij varkens, rundvee, uitgezonderd bij kippen
- Fluoroquinolones: een dalende tot stabiele trend in resistentie bij varken, rund en kippen
- Andere antibiotica: geen grote shiften op te merken eerder een stabiel patroon aan resistentie