Ravimite kasutamise andmed Antibiootikumide müük veterinaarsel otstarbel

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20.11.2024

Humaan- ja veterinaarravimite statistika

Ravimiameti koostatud ravimistatistika põhineb Eestis tegevusluba omavate ravimite hulgimüüjate kvartaalsetel aruannetel.

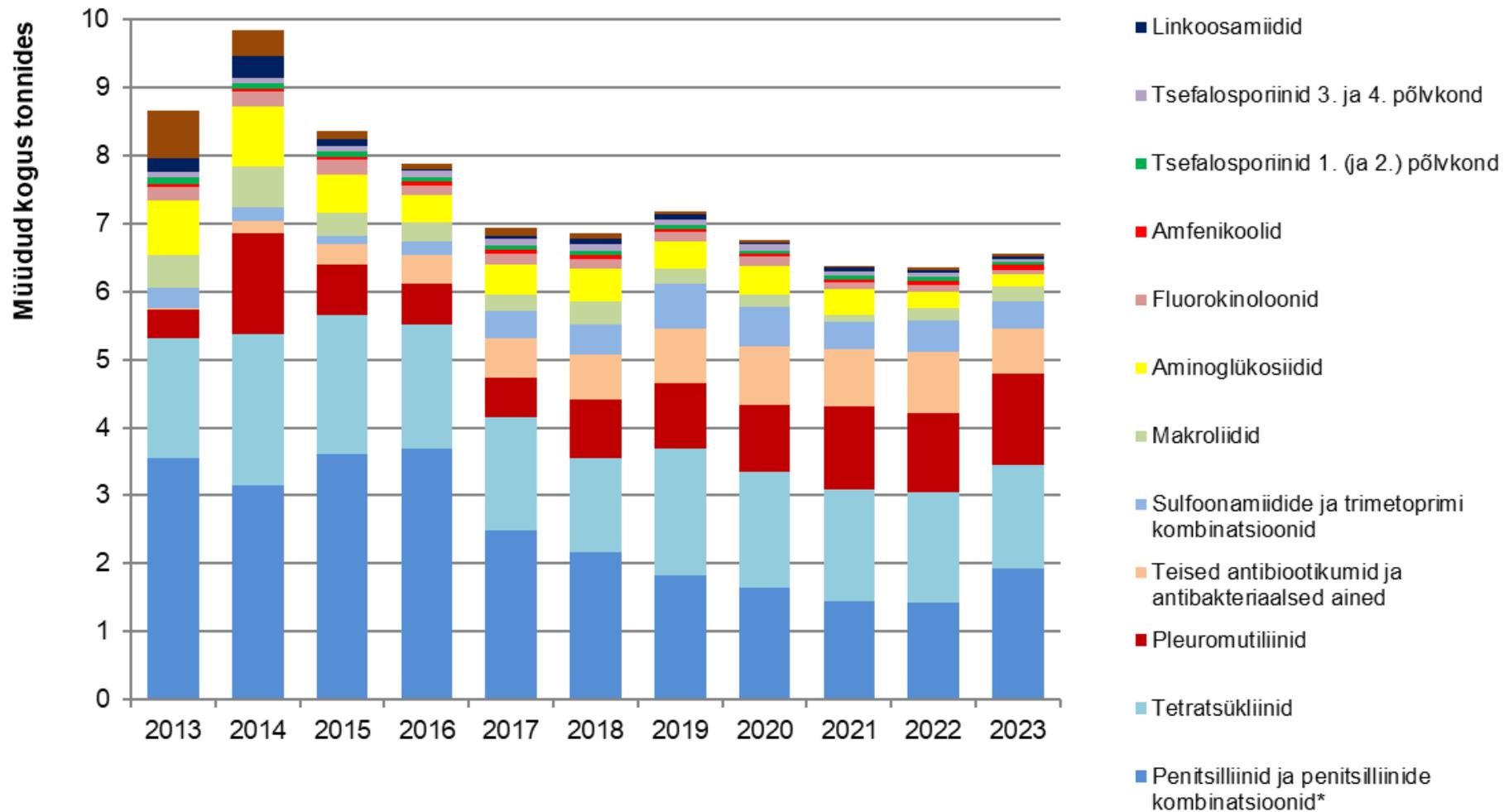Humaanravimite statistika alates 1994
Veterinaarravimite statistika alates 2006

- **Andmed katavad 100% ravimiturust**
- **Andmed on ravimpakendi tasemel**
- Müüdud pakendite arv, käive, laoseis, import-eksport

Veterinaarantibiootikumid, kogus tonnides

Veterinaarseks otstarbeks müüdud antibiootikumid aastatel 2013-2023

Loomadel kasutatavate antibiootikumide liigitus vastutustundlikuks kasutamiseks

A-kategooria − „Vältida"

      ELis ei ole veterinaarravimitena müügiluba,

      neid ei tohi kasutada toiduloomadel

B-kategooria − „Piirata"

      kriitilise tähtsusega humaanmeditsiinis

      (kinoloonid, 3. ja 4. põlvkonna tsefalosporiinid, polümüksiinid)

C-kategooria − „Ettevaatlik"

      mõne veterinaarse näidustuse korral puuduvad alternatiivid D-kategoorias

D-kategooria − „Mõistlik"
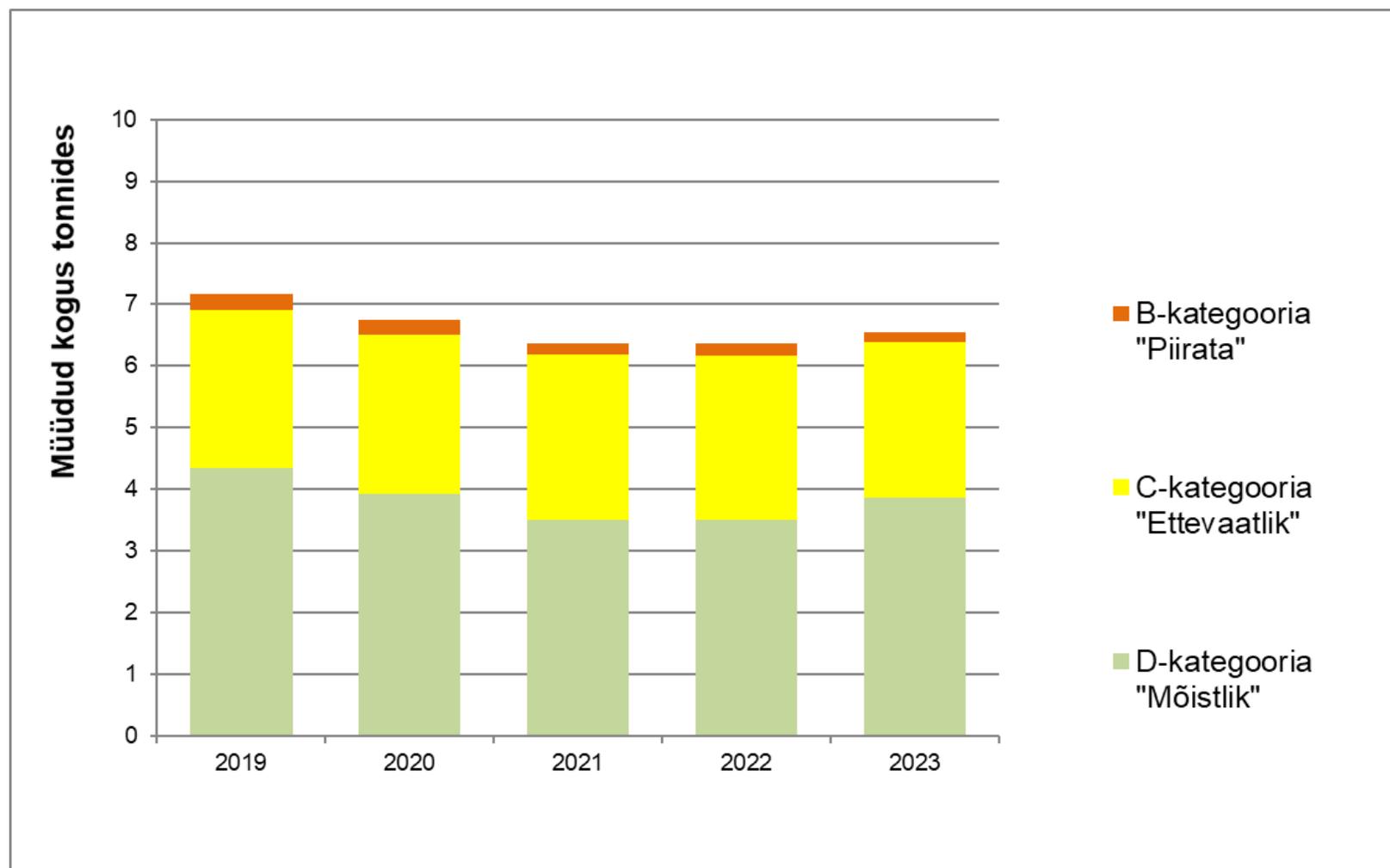
      esimese valiku antibiootikumid

B-kategooria
polümüksiinid (kolistiin)
3.-4. tsefalosporiinid
kinoloonid

C-kategooria
pleuromutiliinid
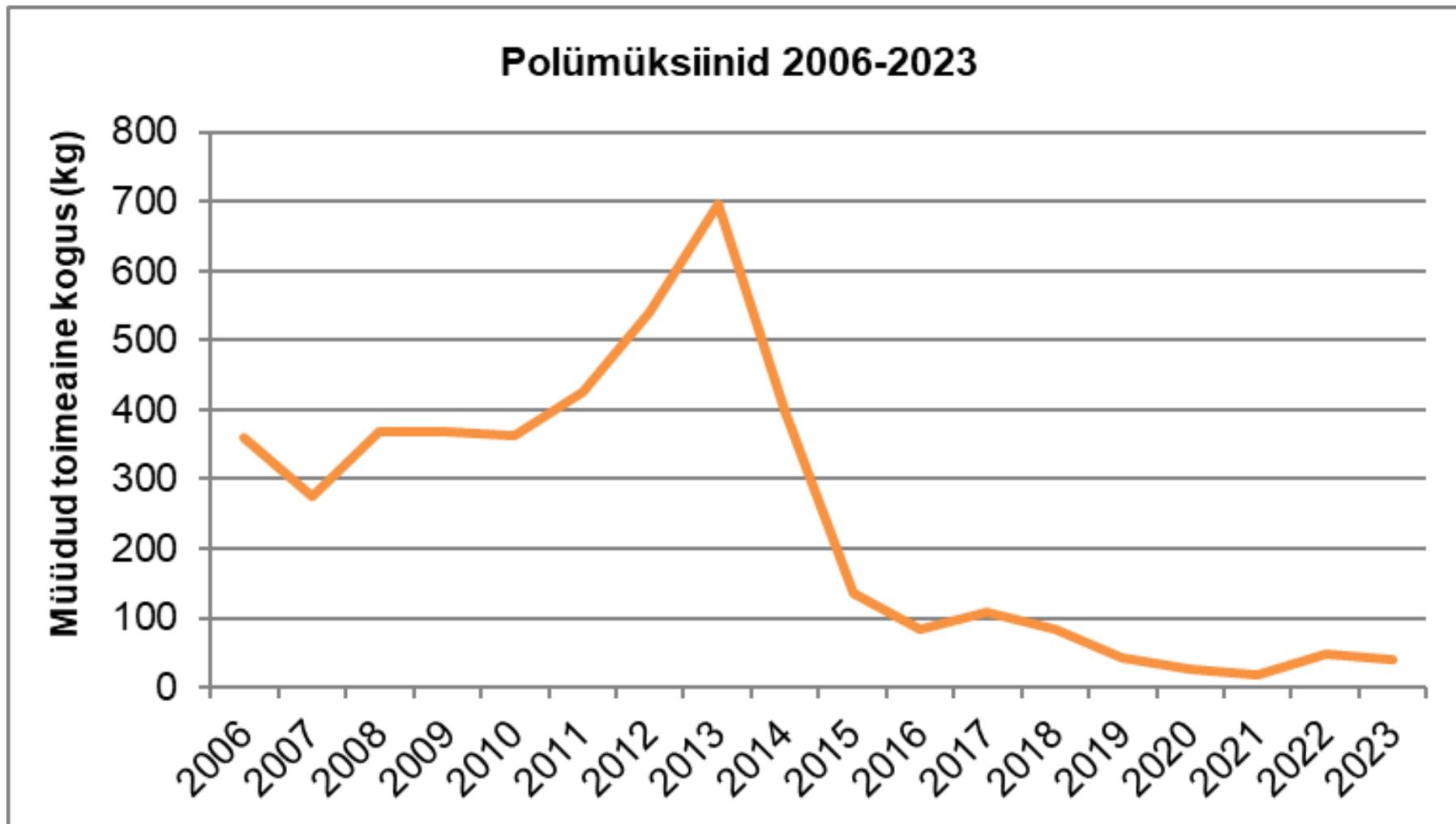linkoosamiidid, makroliidid,
amfenikoolid,
1.-2. tsefalosporiinid

D-kategooria
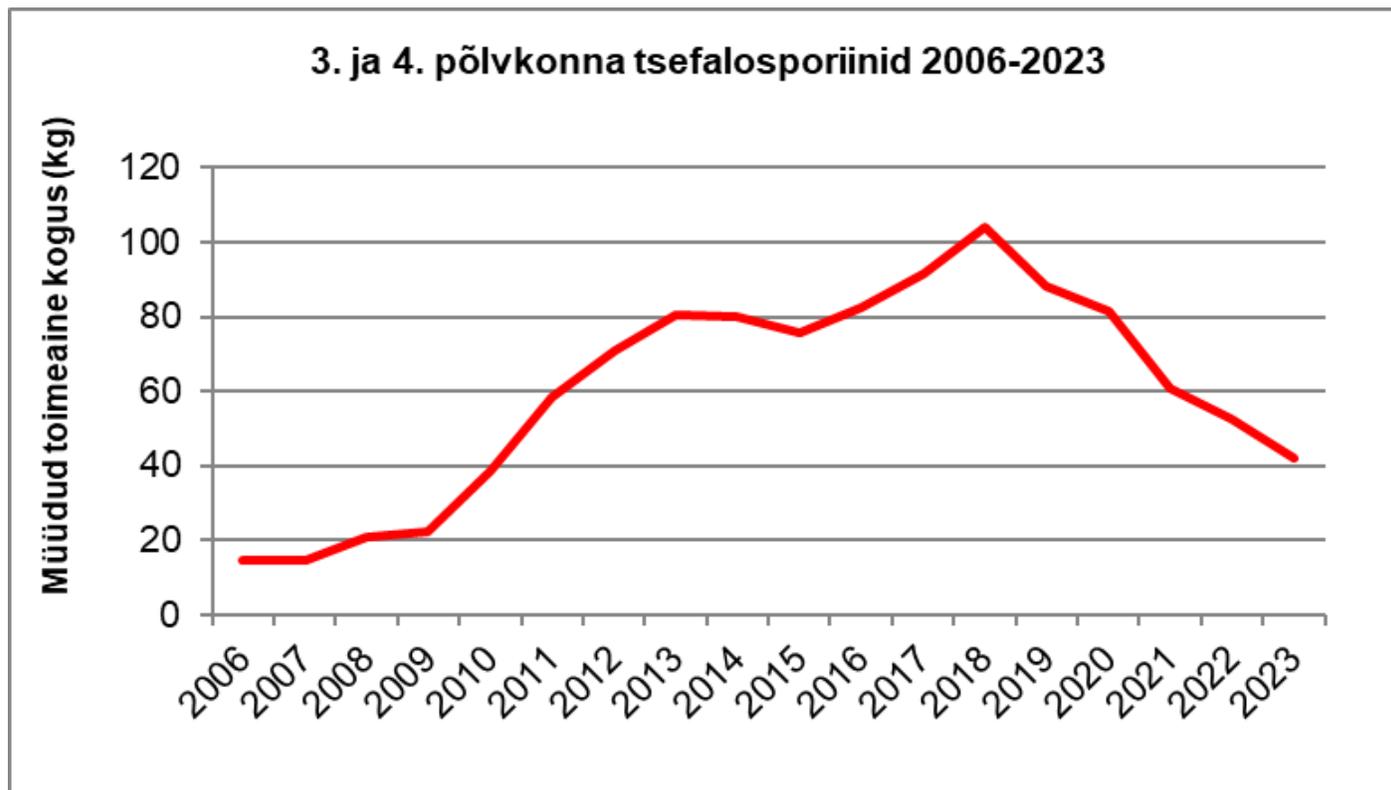penitsilliinid
tetratsükliinid
sulfoonamiidid

RAVIMIAMET

Kriitiliste antibiootikumide kasutamine

Polümüksiinid 2006-2023

Kriitiliste antibiootikumide kasutamine

3. ja 4. põlvkonna tsefalosporiinid 2006-2023

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
15	15	21	22	39	58	71	80	80	76	82	92	104	88	81	61	53	42

Kriitiliste antibiootikumide kasutamine

Fluorokinoloonid 2006-2023
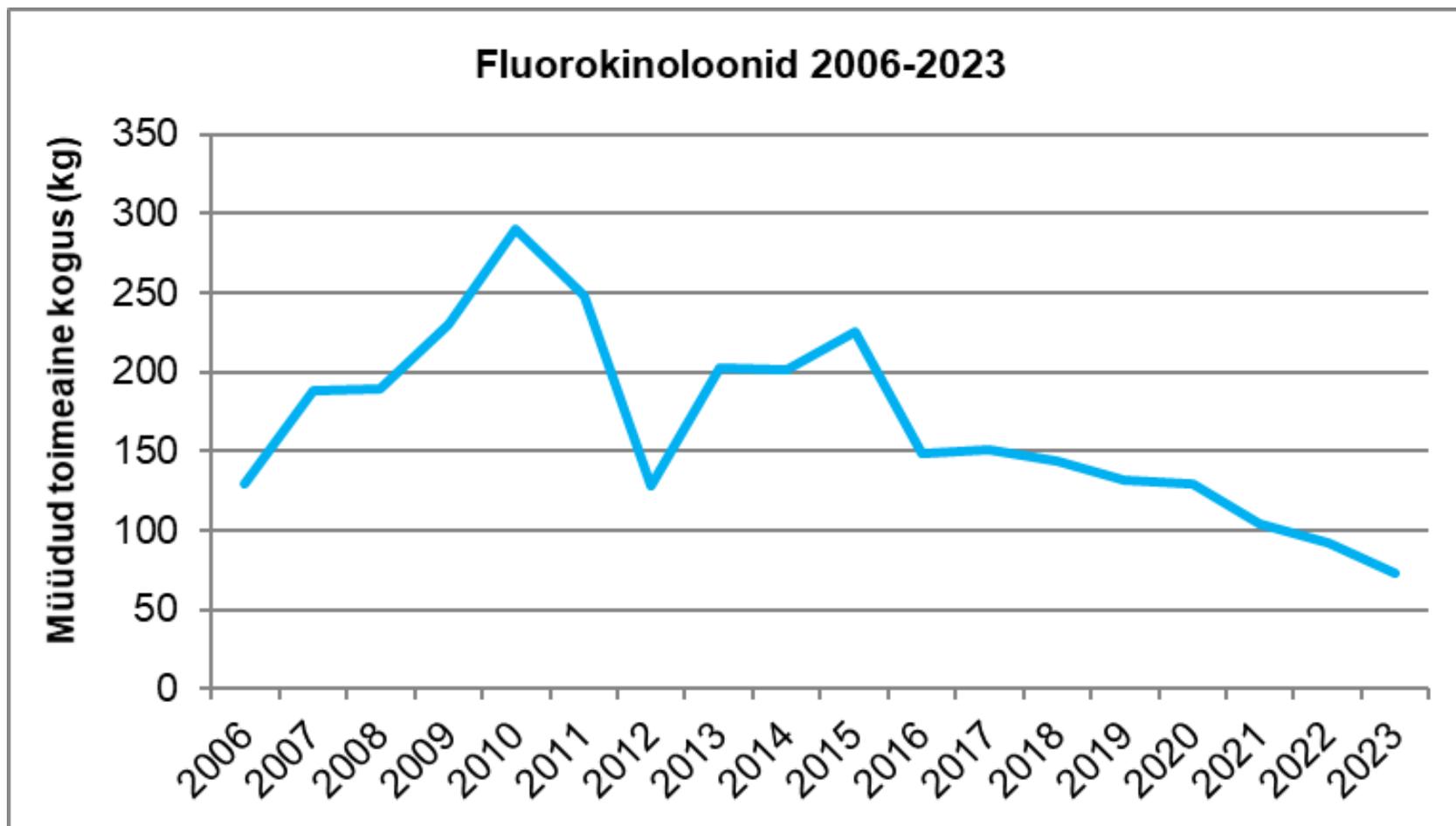
Makroliidide kasutamine
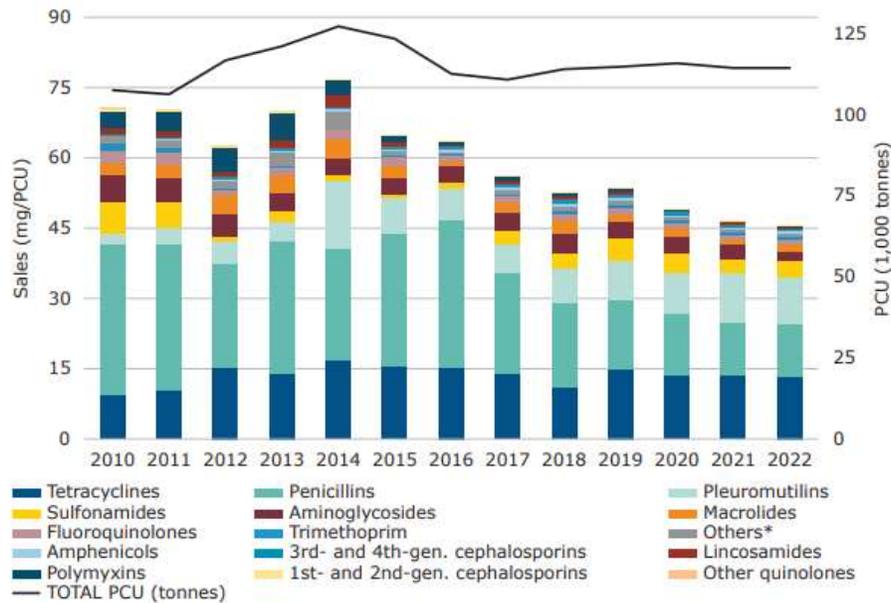

Makroliidid 2006-2023
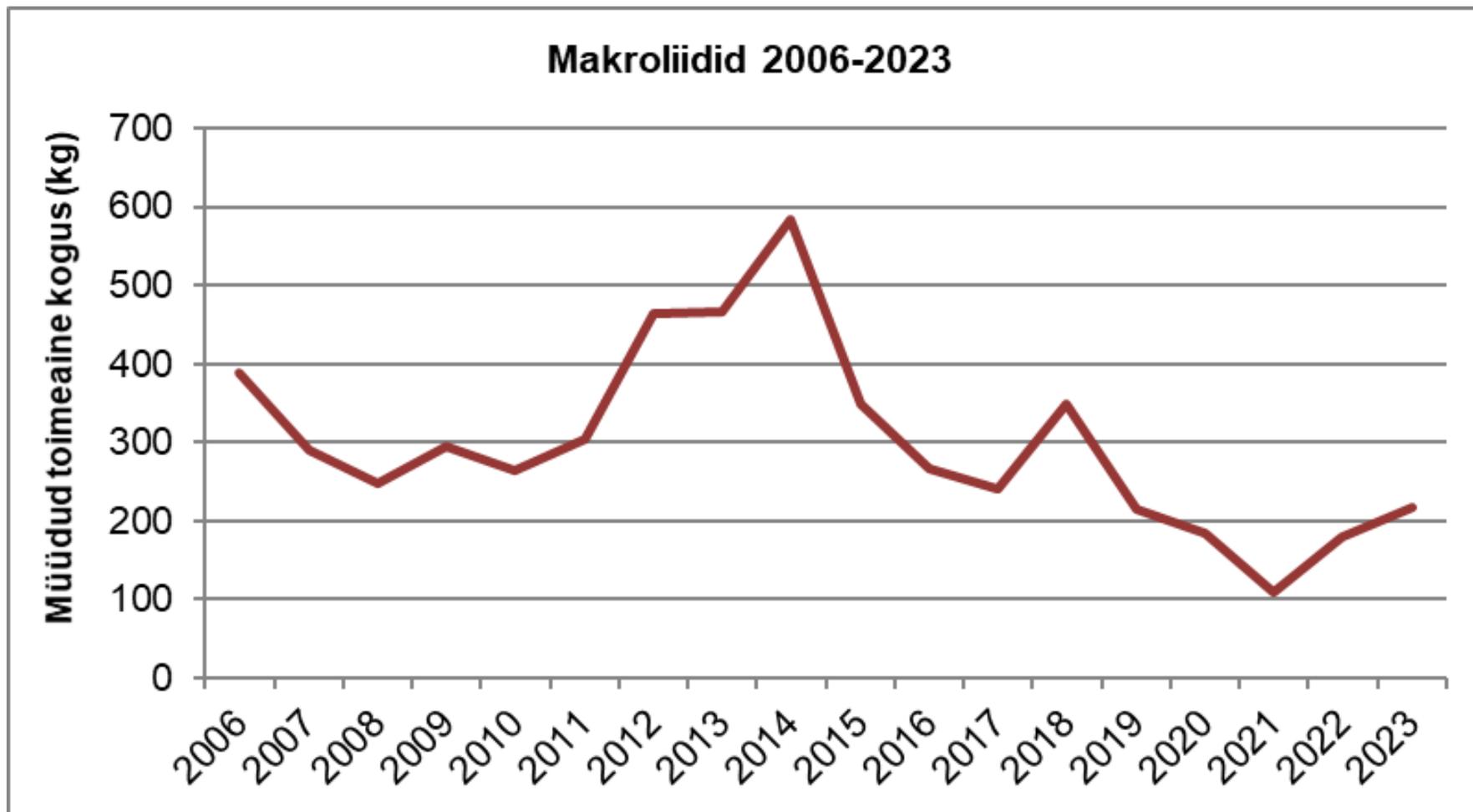
Pleuromutiliinide (tiamuliin) kasutamine

Pleuromutiliinid 2006-2023
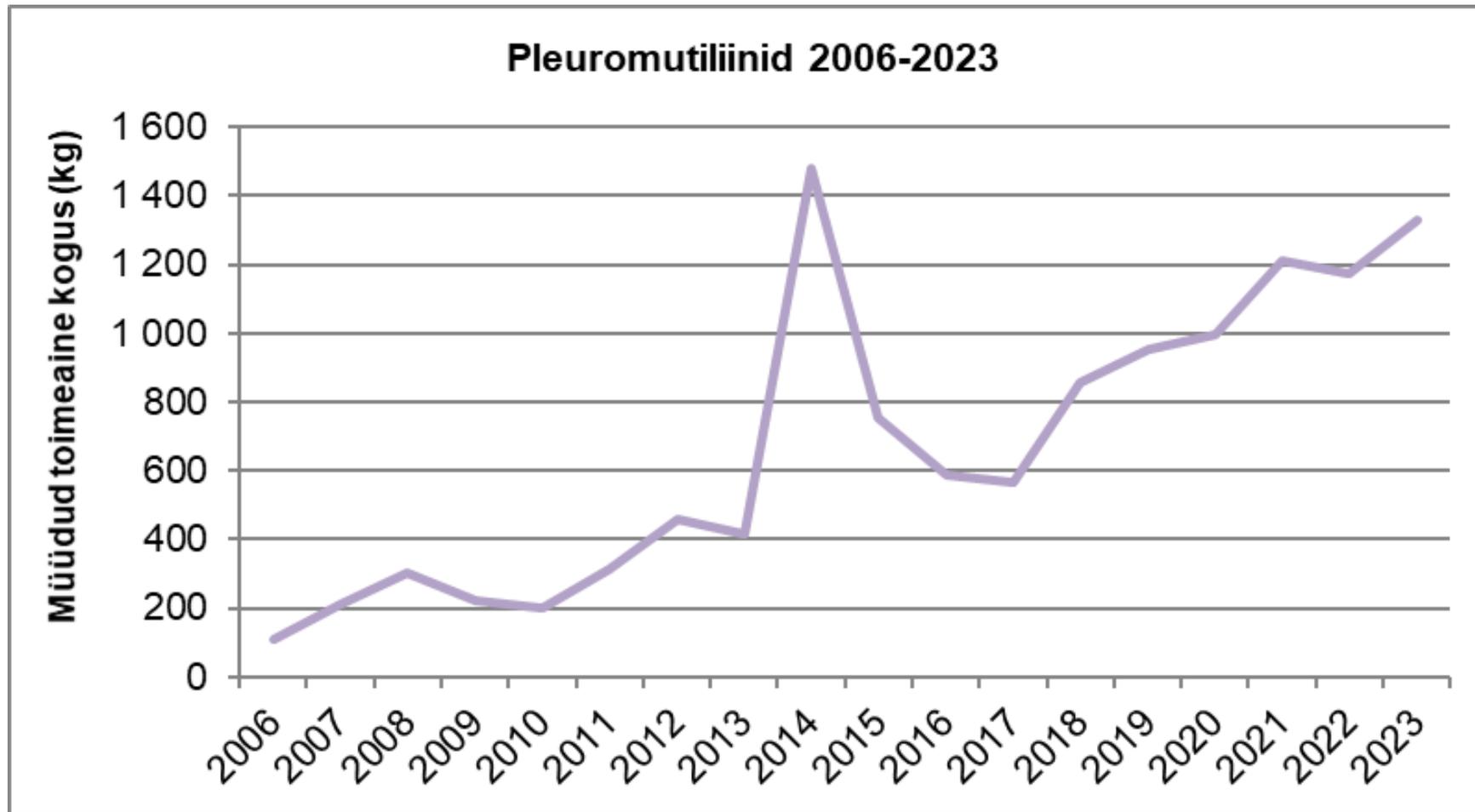
Sales trends (mg/PCU) of antibiotic VMPs for food-producing animals

Sales trends by antibiotic class (mg/PCU) from 2010 to 2022[1,2]

Legend:
- Tetracyclines
- Penicillins
- Pleuromutilins
- Sulfonamides
- Aminoglycosides
- Macrolides
- Fluoroquinolones
- Trimethoprim
- Others*
- Amphenicols
- 3rd- and 4th-gen. cephalosporins
- Lincosamides
- Polymyxins
- 1st- and 2nd-gen. cephalosporins
- Other quinolones
- TOTAL PCU (tonnes)

[1] Sales data sorted from highest to lowest in 2022.
[2] No sales of other quinolones have been reported since 2011.
* The class 'Others' includes sales of bacitracin, novobiocin, rifaximin and spectinomycin (classified as other antibacterials in the ATCvet system).

Since 2011:

- ⬇ 35.0% overall annual sales (from 70.5 mg/PCU to 45.8 mg/PCU in 2022)
- ⬇ 16.3% 3rd- and 4th-generation cephalosporins sales (from 0.55 mg/PCU to 0.46 mg/PCU in 2022)
- ⬇ 66.1% quinolones sales (from 2.3 mg/PCU to 0.79 mg/PCU in 2022)
- ◯ 100% of all quinolones sales for the period 2011–2022 were of fluoroquinolones
- ⬇ 90.5% polymyxins sales (from 4.3 mg/PCU to 0.41 mg/PCU in 2022)
- ⬆ PCU increased by 7.6% between 2011 and 2022

Proportion of sales (mg/PCU) by product form in 2022[1]

3.3% 1.8%
31.6% 63.3%
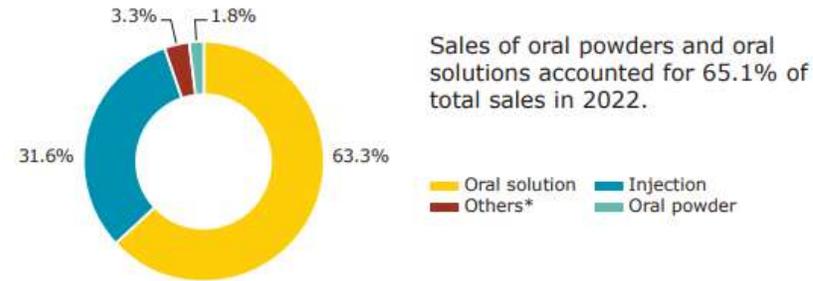
Sales of oral powders and oral solutions accounted for 65.1% of total sales in 2022.

- Oral solution
- Injection
- Others*
- Oral powder

[1] No sales of premixes and bolus reported in 2022.
* Other forms include intramammary, intrauterine and oral paste products.

Proportion of sales (mg/PCU) by AMEG categories in 2022

3.7%
33.3%
62.9%
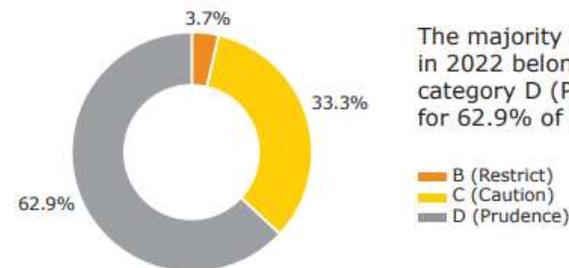
The majority of antibiotic VMP sales in 2022 belonged to the AMEG category D (Prudence), accounting for 62.9% of total sales.

- B (Restrict)
- C (Caution)
- D (Prudence)

2022 sales data

In 2022, overall sales decreased by 1.7% in comparison to 2021 (from 46.6 mg/PCU to 45.8 mg/PCU). The three highest selling antibiotic classes were tetracyclines, penicillins and pleuromutilins, which accounted for 28.9%, 24.3% and 22.3% of total sales, respectively.

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Eesti Euroopa võrdluses

No Country	2022, mg/PCU	No Country	2022, mg/PCU
1 Norway	2,1	17 Czechia	46,4
2 Iceland	4,4	18 Lithuania	48,2
3 Sweden	10,6	19 Romania	48,8
4 Finland	14,9	20 Croatia	56,2
5 Latvia	20,8	21 Germany	69,9
6 Luxembourg	25,1	22 Belgium	73,5
7 Slovenia	25,7	23 Malta	74,4
8 United Kingdom	25,7	24 Portugal	77,1
9 Switzerland	27,3	25 Greece	89,0
10 Ireland	33,6	26 Bulgaria	103,2
11 Denmark	34,1	27 Hungary	111,2
12 Austria	36,2	28 Spain	127,4
13 Netherlands	37,0	29 Italy	157,5
14 France	38,9	30 Poland	196,0
15 Slovakia	41,1	31 Cyprus	254,7
16 Estonia	45,8	Median 31 countries	45,8

Veterinary Antimicrobial Monitoring and Resistance, Veterinary Medicines Division, European Medicines Agency:

**Estonia 2023**

Sales decreased from **45.8 to 42.5 mg/PCU**

(due to a 7.2% increase of PCU)

* Not yet published

Eesmärk vähendada kogukasutust Euroopas

The EU Farm to Fork strategy aims to bring a **50% reduction in total sales of antimicrobials** for farmed animals and aquaculture by 2030 compared with 2018 figures.

By 2022, EU Member States had achieved **just over half of the reduction target set for 2030**, as shown in the enclosed visual.

84.8 mg/PCU
2022

118.3 mg/PCU
2018

59.2 mg/PCU
2030

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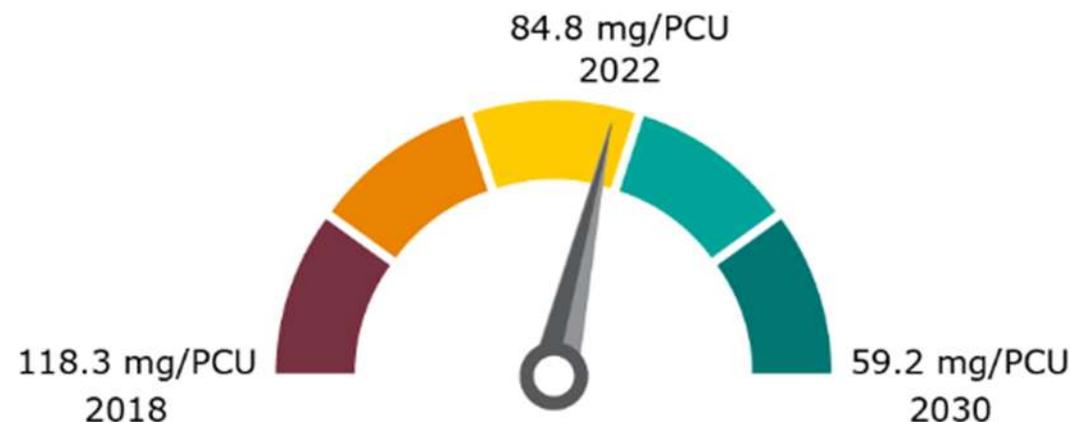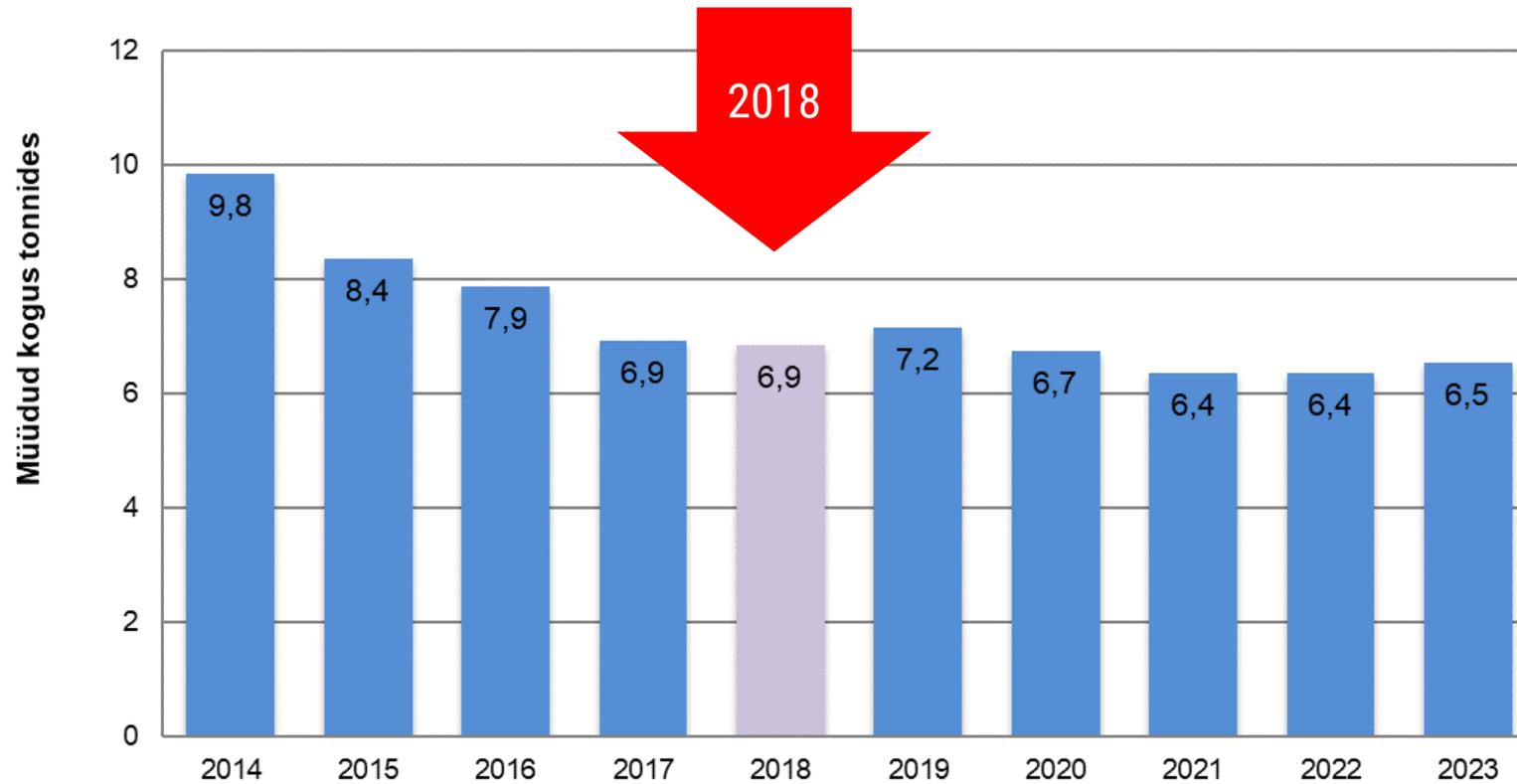
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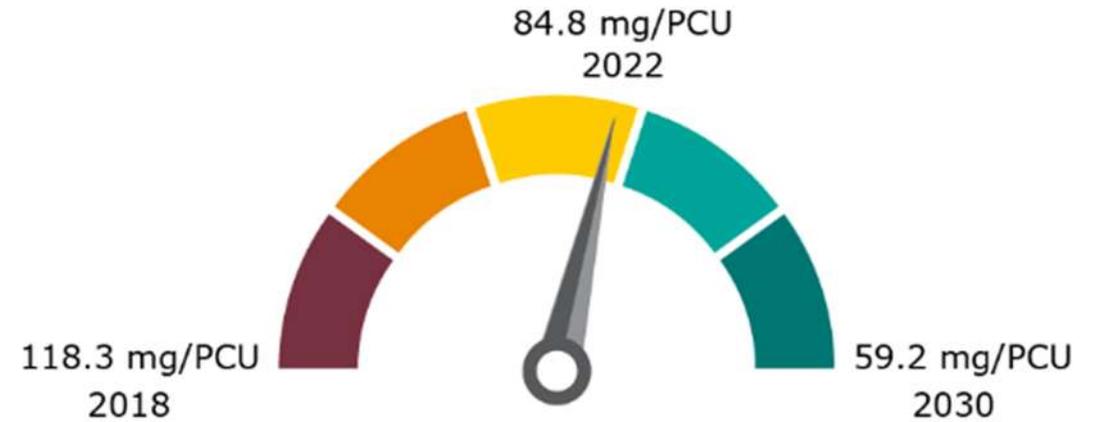
Eesti, mg/PCU										
2014	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**		**2030**
76,8	64,9	63,7	56,3	52,9	53,5	49,2	46,6	45,8		**26,5**
										-50%

Eesmärk vähendada kogukasutust

Veterinaarseks otstarbeks müüdud antibiootikumid 2014-2023

„Me saaks kiirelt vähendada AB kasutamist (kg-des) poole võrra, aga kas me seda tahame:

Out with the old...	In with the new

• Procaine penicillin
  □ 20 mg/kg q12h
	• Enrofloxacin (HPCIA)
	  □ 5 mg/kg q24g

• Amoxicillin-clavulanic acid
  □ 12.5-25 mg/kg q8-12h
	• Ceftiofur (HPCIA)
	  □ 1 mg/kg q24h

• Amoxicillin
  □ 11-22 mg/kg q8h
	• Tulathromycin (HPCIA)
	  □ 2.5 mg/kg once

• Oxytetracycline
  □ 6.6-11 mg/kg q24h
	• Cefovecin (HPCIA)
	  □ 8.8 mg/kg once

Vajad ravimite kasutamise statistikat?
Küsi julgelt!

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