



TIVA med TCI

*”Middel til endret
legemiddeløkonomi ?”*

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- 1: [Kaiser GM, Breuckmann F, Aker S, Eggebrecht H, Kuehl H, Erbel R, Fruhauf NR, Broelsch CE, Quick HH.](#) Related Articles, Links
 Anesthesia for cardiovascular interventions and magnetic resonance imaging in pigs.
J Am Assoc Lab Anim Sci. 2007 Mar;46(2):30-3.
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- 2: [Gokce BM, Ozkose Z, Tuncer B, Pampal K, Arslan D.](#) Related Articles, Links
 Hemodynamic effects, recovery profiles, and costs of remifentanyl-based anesthesia with propofol or desflurane for septorhinoplasty.
Saudi Med J. 2007 Mar;28(3):358-63.
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- 3: [Umar MA, Yamashita K, Kushihiro T, Muir WW 3rd.](#) Related Articles, Links
 Evaluation of cardiovascular effects of total intravenous anesthesia with propofol or a combination of ketamine-medetomidine-propofol in horses.
Am J Vet Res. 2007 Feb;68(2):121-7.
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- 4: [Bauer C, Kreuer S, Ketter R, Grundmann U, Wilhelm W.](#) Related Articles, Links
 [Remifentanyl-propofol versus fentanyl-midazolam combinations for intracranial surgery : Influence of anaesthesia technique and intensive sedation on ventilation times and duration of stay in the ICU.]
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- 5: [Wang LP, McLoughlin P, Paech MJ, Kurowski I, Brandon EL.](#) Related Articles, Links
 Low and moderate remifentanyl infusion rates do not alter target-controlled infusion propofol concentrations necessary to maintain anesthesia as assessed by bispectral index monitoring.
Anesth Analg. 2007 Feb;104(2):325-31.
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- 6: [Ihmssen H, Naguib K, Schneider G, Schwilden H, Schuttler J, Kochs E.](#) Related Articles, Links
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 A comparison of spinal anesthesia with small-dose lidocaine and general anesthesia with fentanyl and propofol for ambulatory prostate biopsy procedures in elderly patients.
J Clin Anesth. 2007 Feb;19(1):25-9.

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Cost Analysis of Target-Controlled Infusion-Based Anesthesia Compared with Standard Anesthesia Regimens

Stefan Suttner, MD, Joachim Boldt, MD, Christian Schmidt, MD, Swen Piper, MD, and Bernhard Kumle, MD

Department of Anesthesiology and Intensive Care Medicine, Klinikum der Stadt Ludwigshafen, Akademisches Lehrkrankenhaus der Universität Mainz, Ludwigshafen, Germany

Anesth Analg 1999;88:77-82 77

- Mål: samanlikne kostnad for TCI-TIVA med to standard anestesiregime
- Randomisert
- Elektiv lapraskopisk cholecystektomi

Resultat

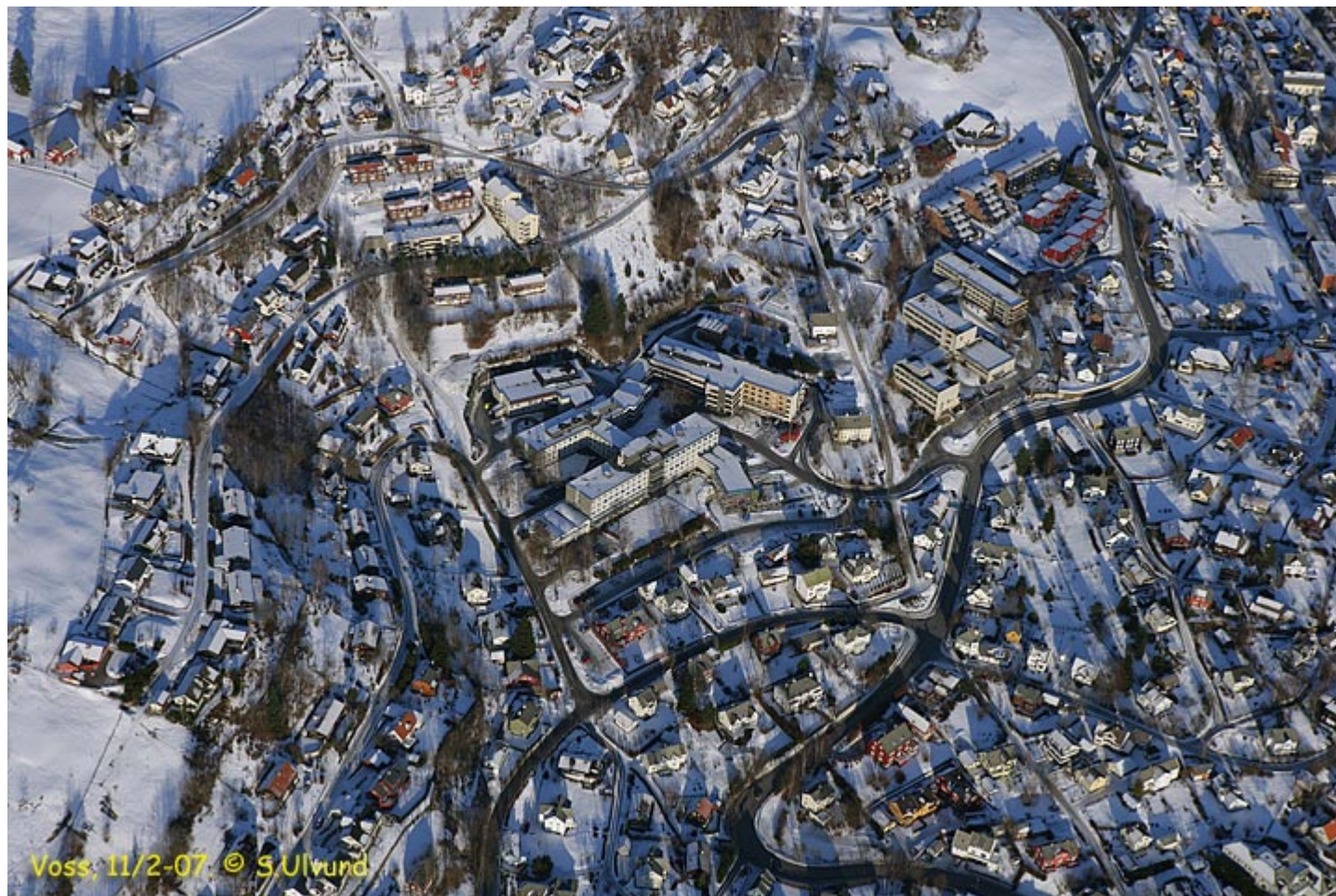
- TCI TIVA bedre pasientkomfort
 - Mindre POKO, smerte, shivering, redusert tid på oppvåkning ($p < 0.05$), tid til > 8 p på Aldrete score
- Kostnad til TCI TIVA høg
 - 4 ganger så dyrt per minutt med TCI TIVA
 - \$ 0,55/minutt samanlikna med \$0.13 med isofluran
 - Ikkje rekna med kostnad til eingongsutstyr

Voss





Slettafjellet, 11/2-07 © S.Ulvund





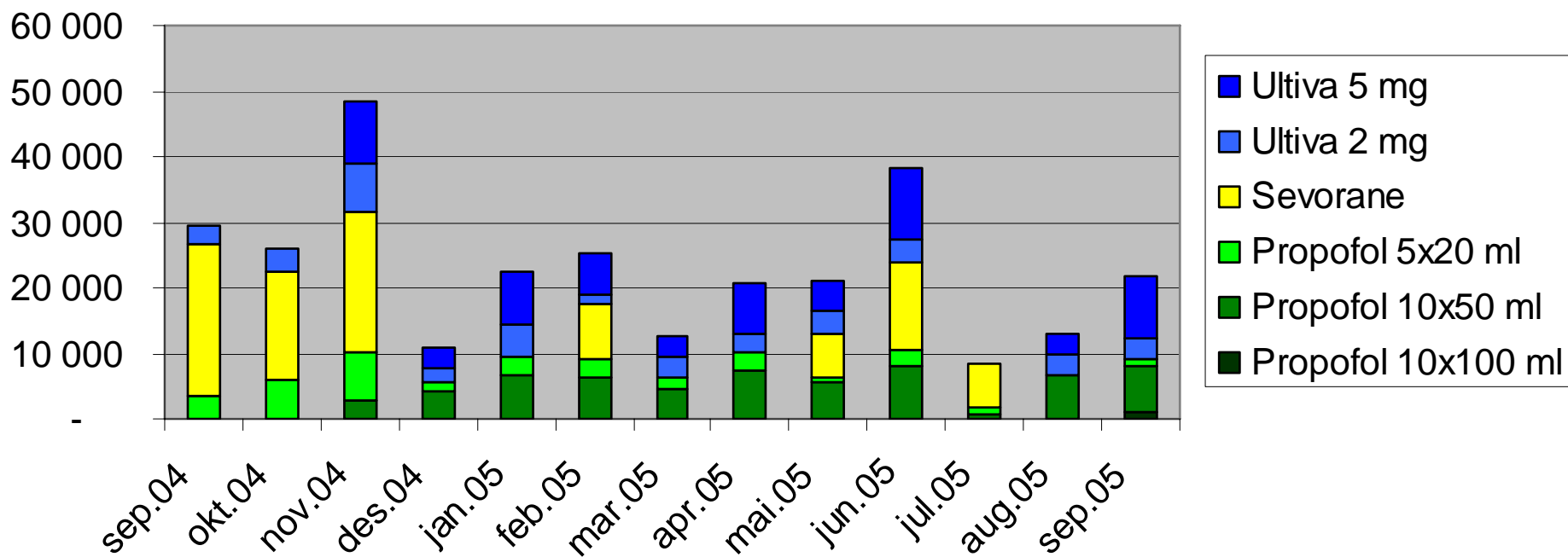
TCI pumper september 2004



- Brå overgang frå primært å nytte inhalasjonsanestesi med Sevoflurane til
- TCI TIVA med remifentanyl og propofol
- Men me har fordampar framleis...

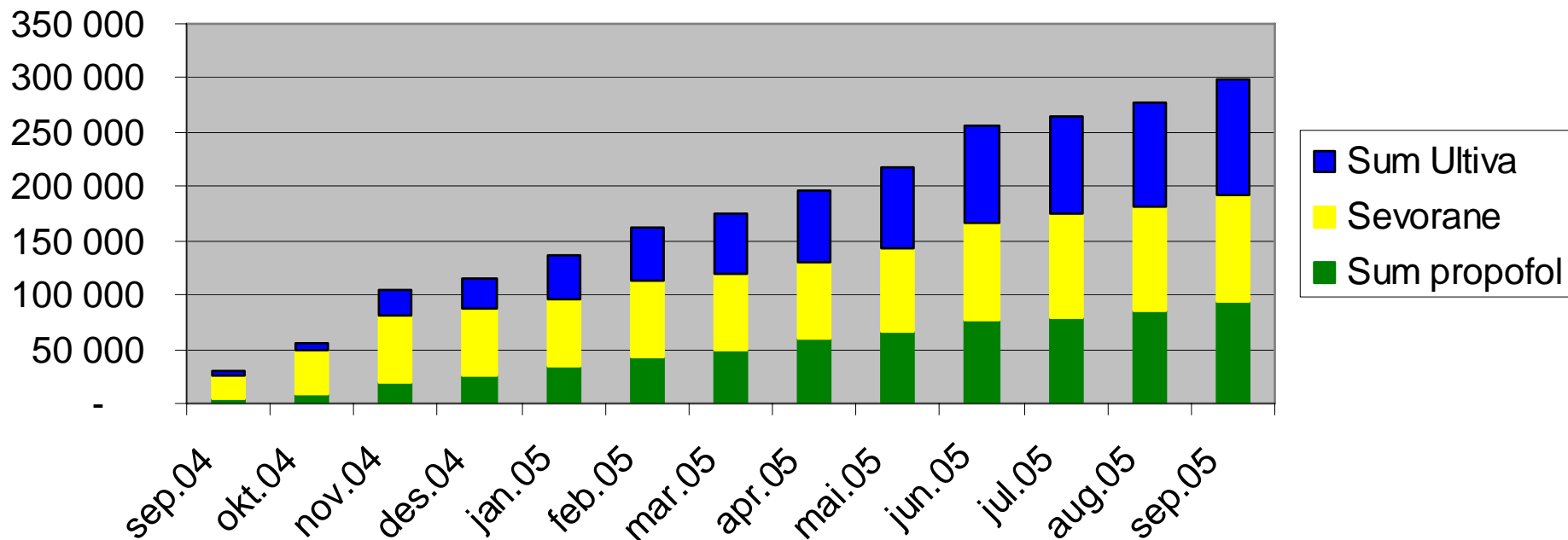
Fordeling innkjøp -04/05

Forbruk pr mnd



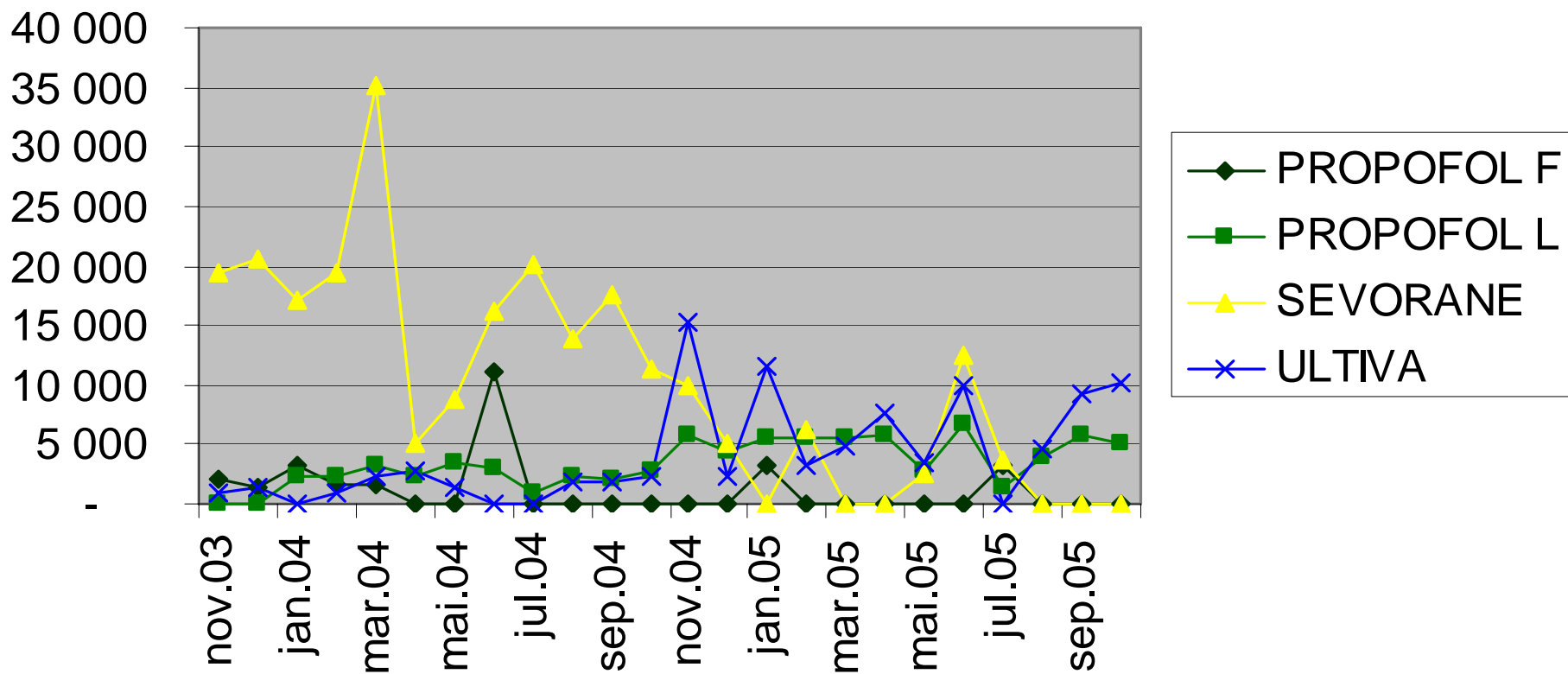
Fordeling kostnad "første år"

Akkumulert produkter



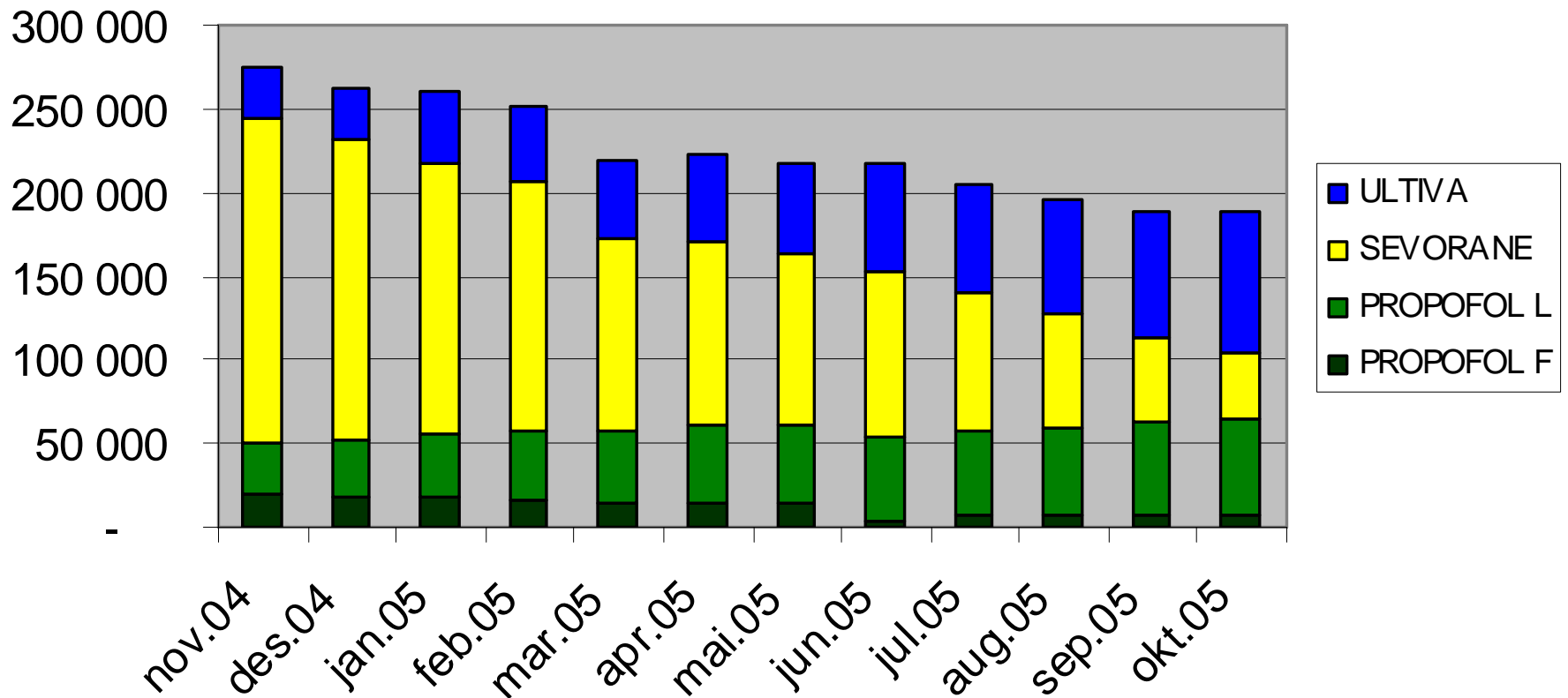
Forbruk frå 2003-05

Forbruk pr måned



Kostnad siste 12 mnd forbruk

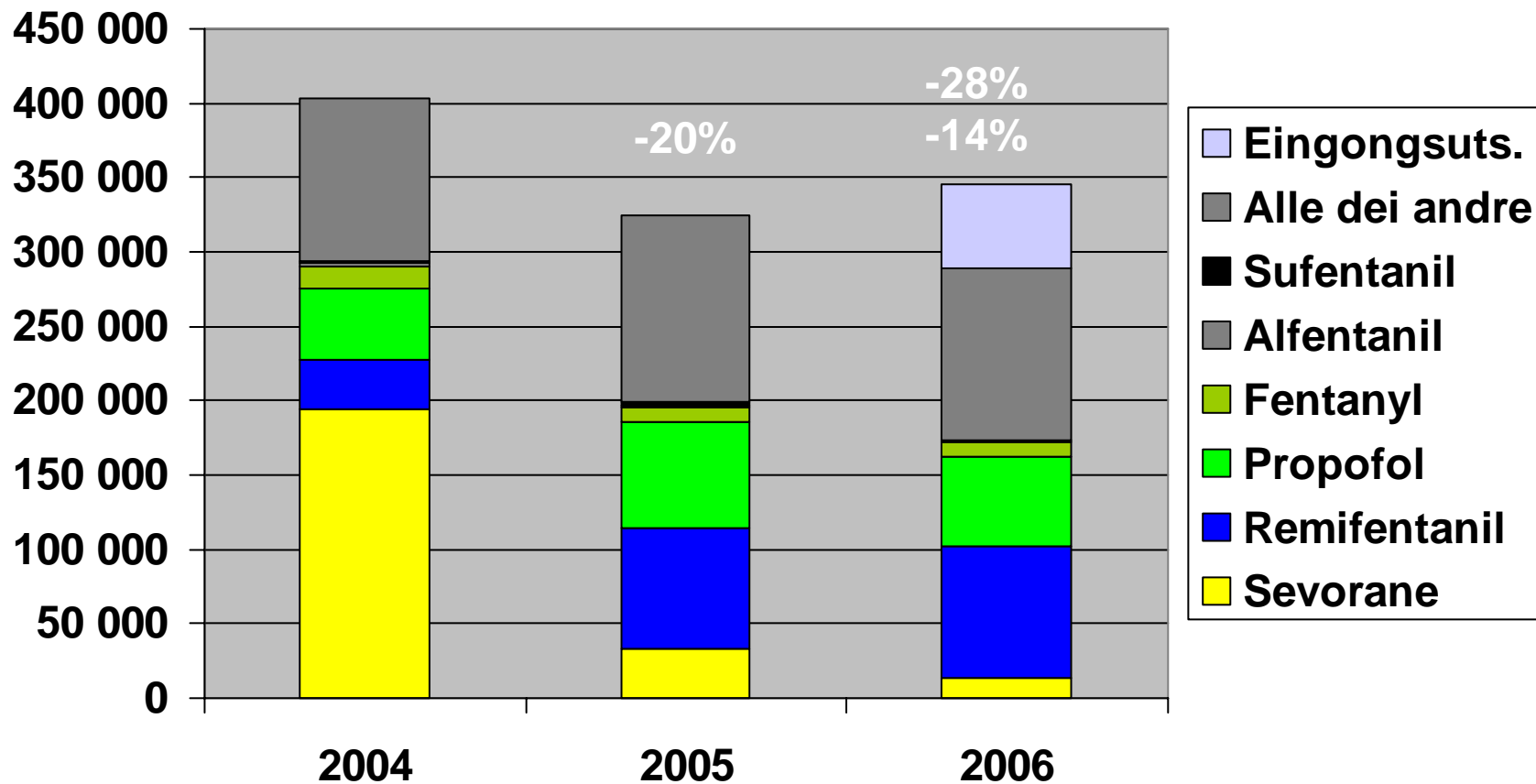
12 mnd forbruk



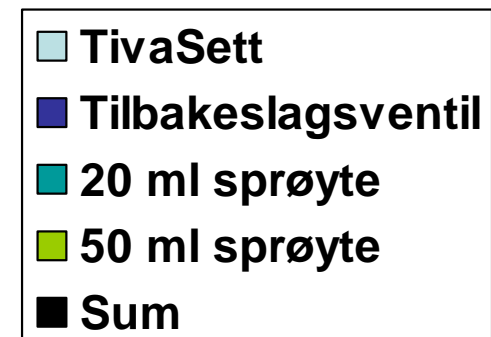
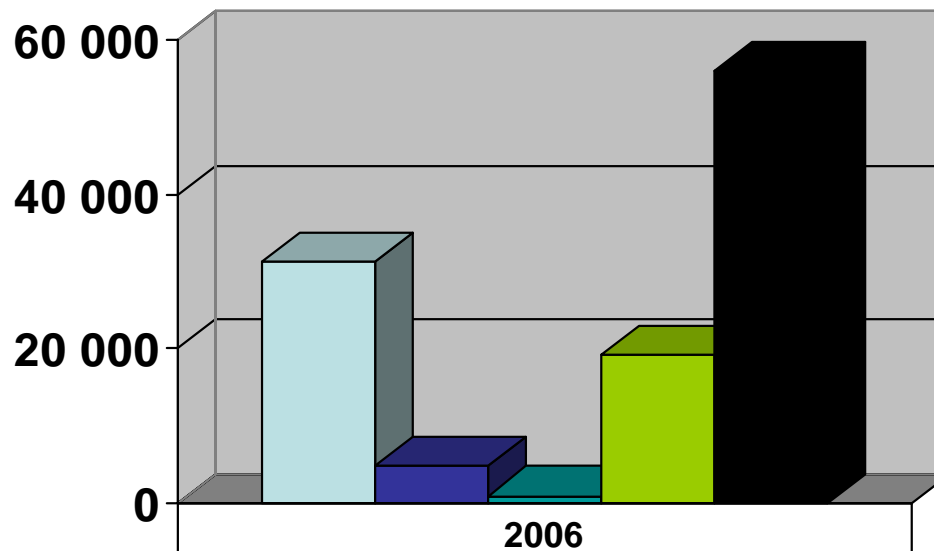
Kvifor denne reduksjonen ?

- Redusert forbruk av Sevoflurane
- Forbruket av TIVA medisinar er under kontroll med TCI modell og god planlegging
- Propofol Lipuro 10 x 100 ml etter LIS er 479 kr ($479:1000=0,479$ kr/ml)

Medikamentkostnad anesthesi VS



Eingongsutstyr



■ TivaSett	31 200
■ Tilbakeslagsventil	4 760
■ 20 ml sprøyte	980
■ 50 ml sprøyte	19 116
■ Sum	56 056

	2004	2005	2006
Sevorane	193 809	33 685	13 422
Remifentanil	33 409	80 343	88 273
Propofol	48 770	72 034	60 684
Fentanyl	14 050	9 044	9 513
Alfentanil	1 977	1 590	1 433
Sufentanil	2 019	1 881	407
"Alle dei andre"	109 560	125 683	115 583
Engangsutstyr			56 056
Sum	403 595	324 259	345 371
%reduksjon i for	-	20	14

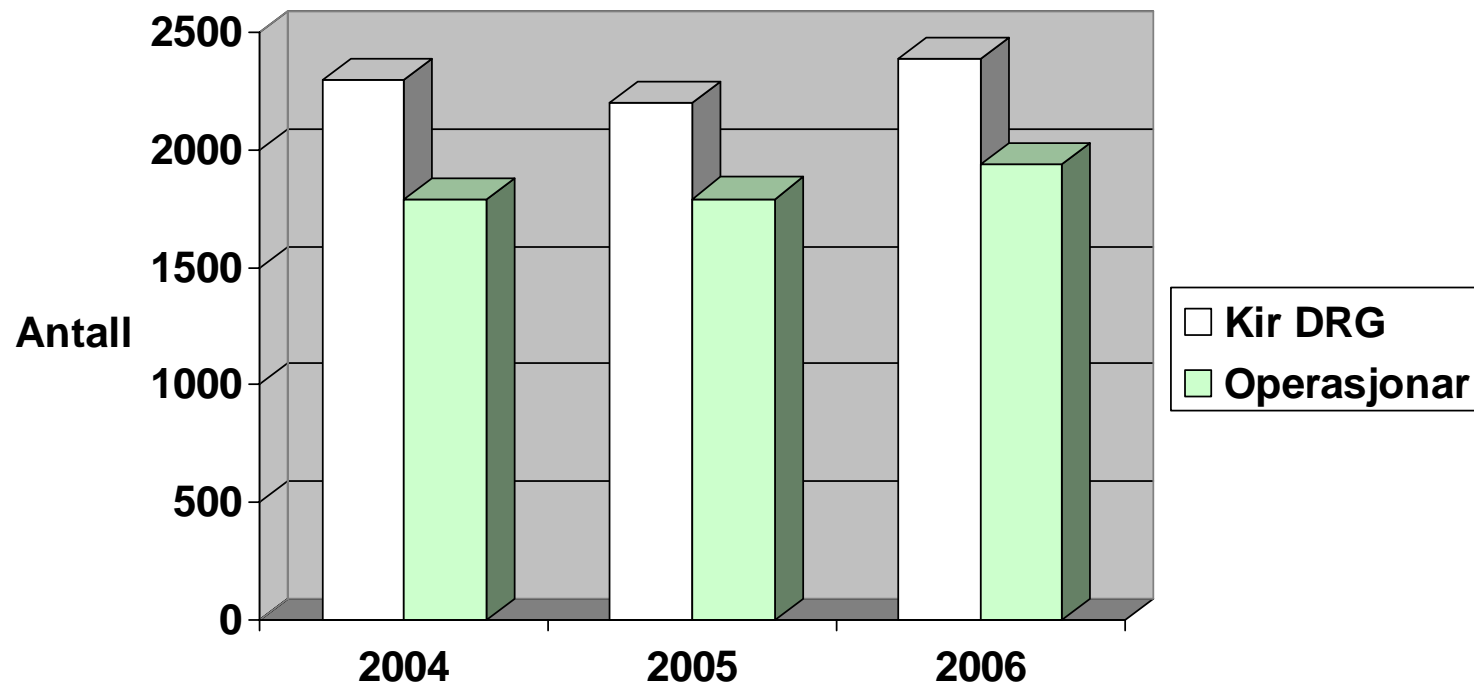
Tilsvarande reduksjon nasjonalt

Sum Sevo, propofol og Ultiva = 30 mill

-20% = 6 mill

-10% = 3 mill

Aktivitetsdata Operasjonsavd VS



2004

2005

2006

DRG

2297

2204

2385

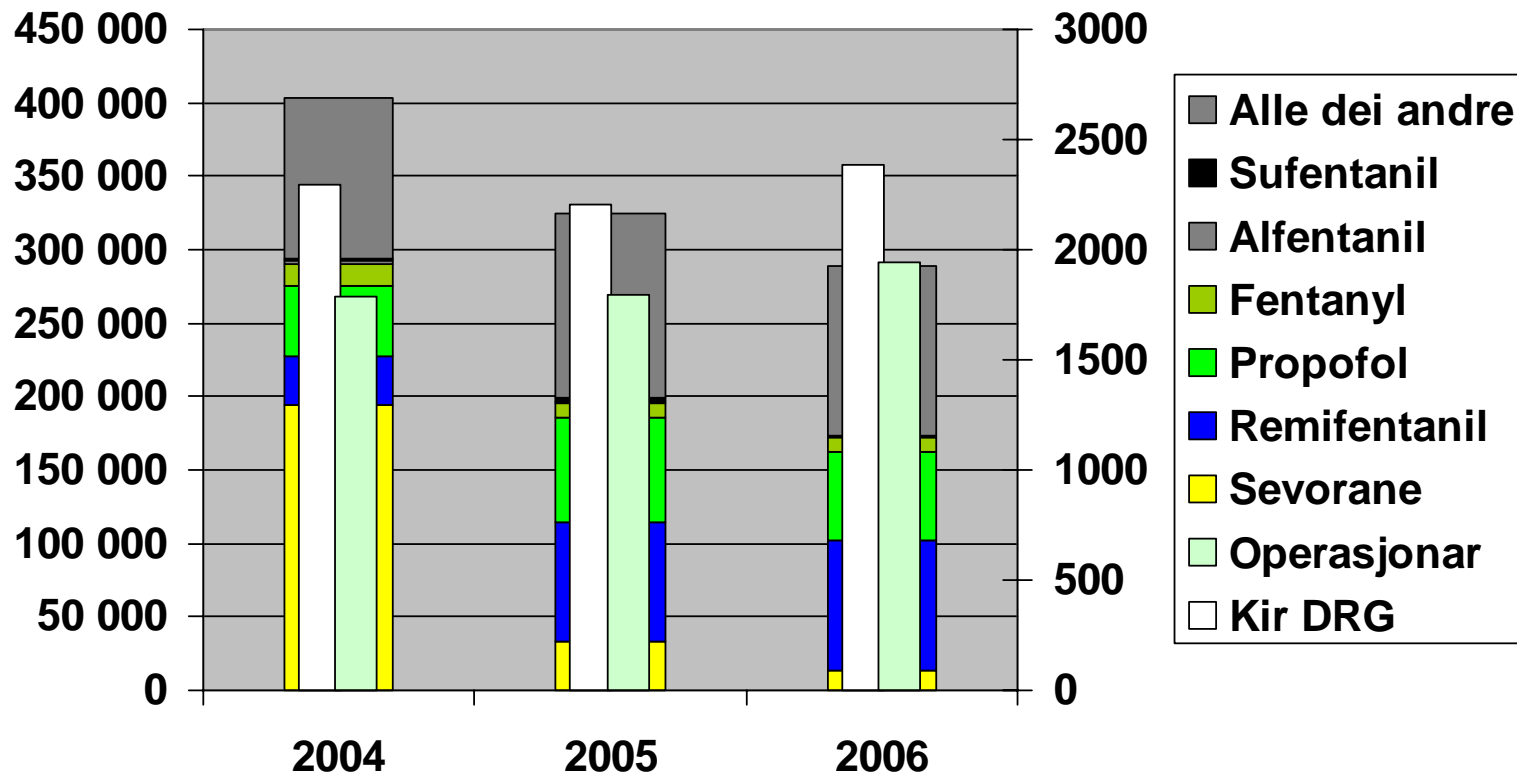
Operasjonar

1787

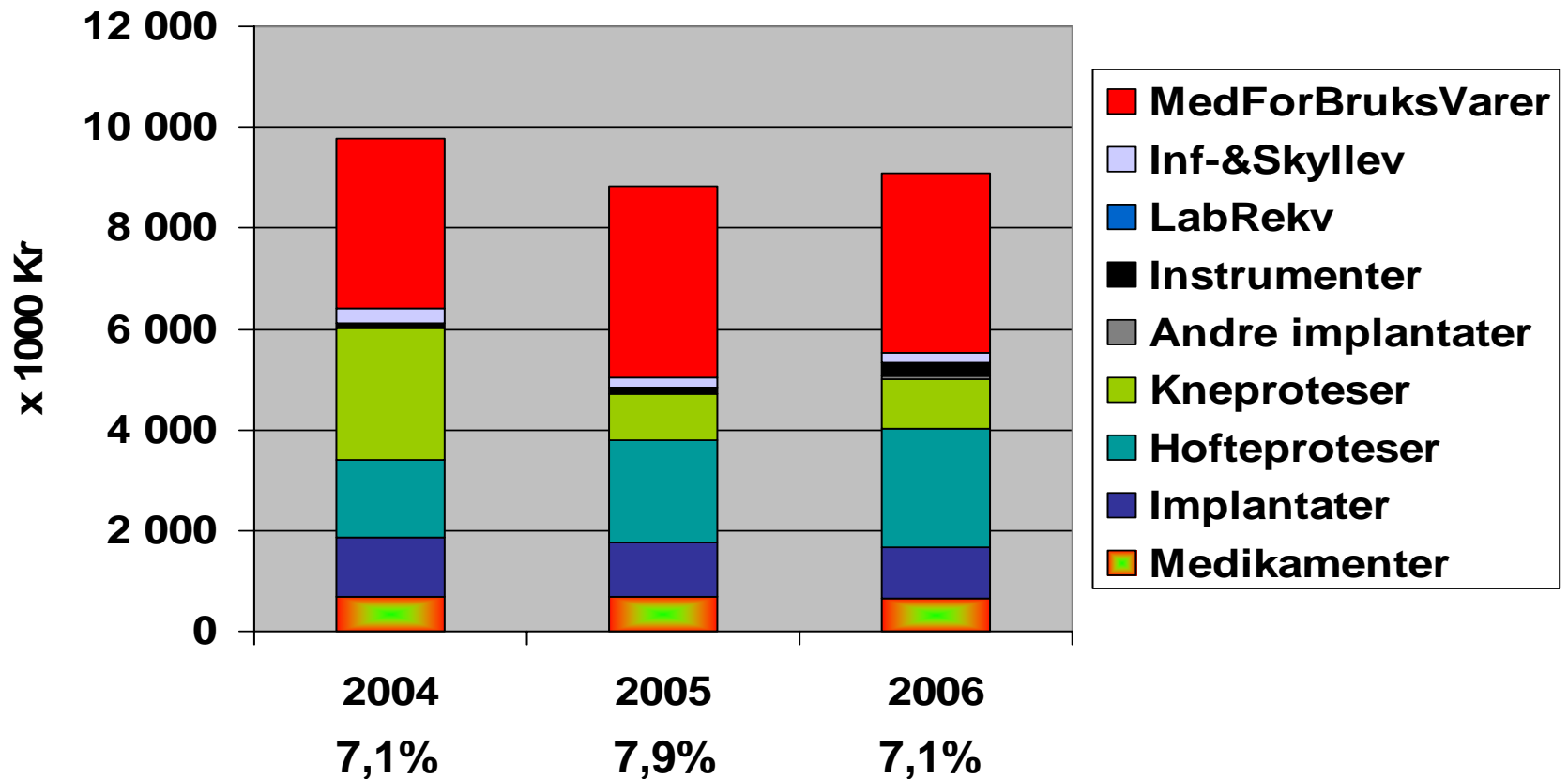
1793

1941

Medikamentforbruk i høve til operasjonar og DRG



Driftskostnader_{v1}



	2004	2005	2006
Med i % Sum mater	7,1	7,9	7,1
Med i % av total	2,8	3,2	2,8
Medikamenter	694	696	648
Implantater	1158	1077	1028
Hofteproteser	1545	2026	2358
Kneproteser	2623	909	983
Andre implnntater	11	0	44
Instrumenter	98	136	282
LabRekv	0	1	1
Inf-&Skyllev	285	185	178
MedForBr	3347	3811	3552
Sum materiell	9761	8841	9074
Mat, drikke	32	31	18
Fast lønn	7795	7840	8358
Sos kostnader	2100	2103	2446
Overtid	1196	1092	1547
innleid hjelp	2208	211	244
Kjøp helsetj	3	4	6
Kost lokaler	1572	1528	1520
Med tekn uts	87	188	74
Andre drifts utg	121	141	155
Sum	24875	21979	23442

Driftskostnader_{v2}

