

SVENSKA ERASDATABASEN KOLOREKTAL KIRURGI



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ERAS (EIAS) DATABASES



PATIENT REGISTRATION (10)

Age, Gender, ASA, possum etc

PREOPERATIVE DATA (35)

BMI, Weight, nutrition, Smoking, Alcohol, Comorbidity, Preop cancer treatment, Medication etc

BEFORE SURGERY (8)

Thrombo prophylaxis, OBP, Preop carbs, Antibiotics

SURGERY (40)

Type of surgery, type of anastomosis, Surgical techniques, drains, GT, etc

ANAESTHESIA (24)

PONV, Anaesthesia, warming Fluids, opioids, etc

- 350 PERIOPERATIVE VARIABLES
- INSTANT FEEDBACK
- BENCHMARKING TO OTHER HOSPITALS
- RESEARCH

FLUID BALANCE (21)

Total IV volume of fluids and weight day zero to discharge

GI AND STOMA FUNCTION (13)

Time for solid food, stools, flatus Stimulation of gut motility, etc

MOBILISATION (11)

Rate of mobilization, day 0-discharge Withdrawal of urinary drains, etc

PAIN AND NAUSEA CONTROL (29)

VAS, Epidurals, TAP, NSAID, Blocks, Opioids, etc

DISCHARGE (10)

LOS, Ready for discharge, etc

REOPERATIONS, READMISSIONS, CONVERSIONS (10)

COMPLICATIONS -30 D (150)

Clavien

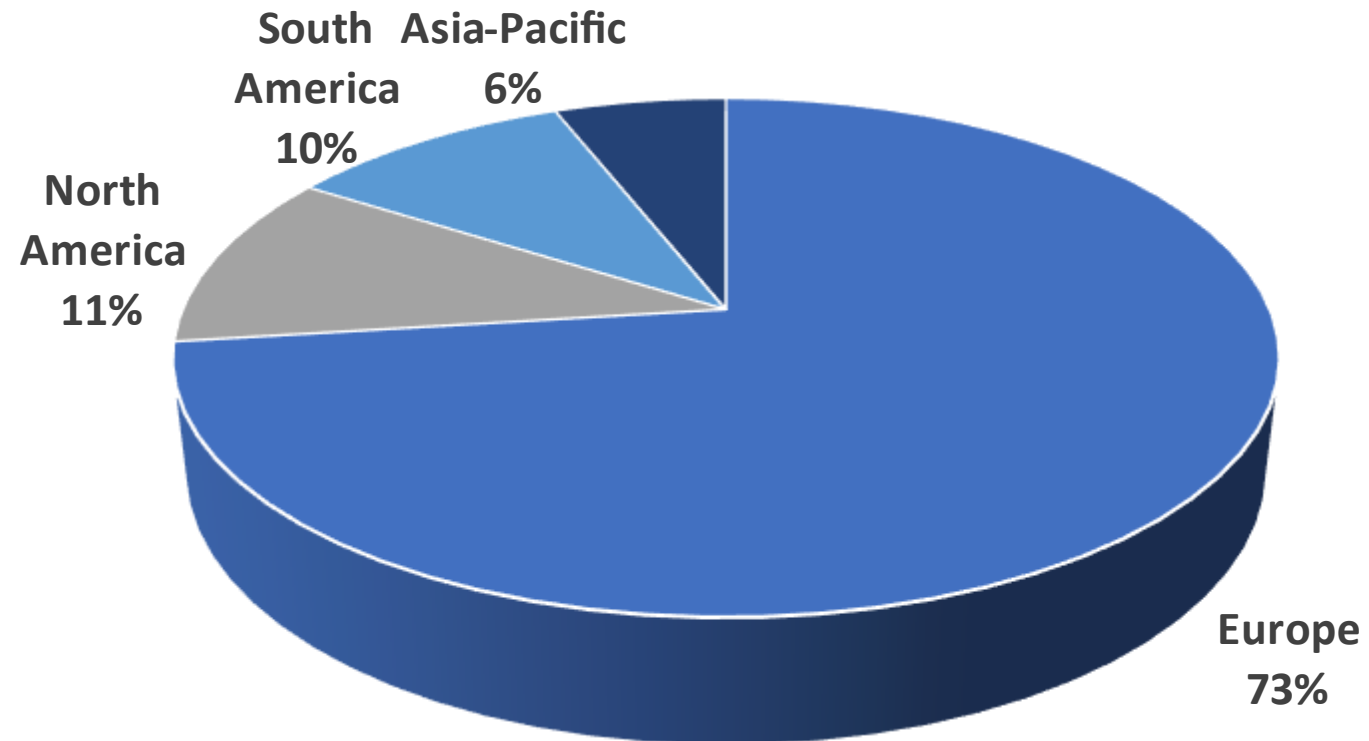
Map

Satellite

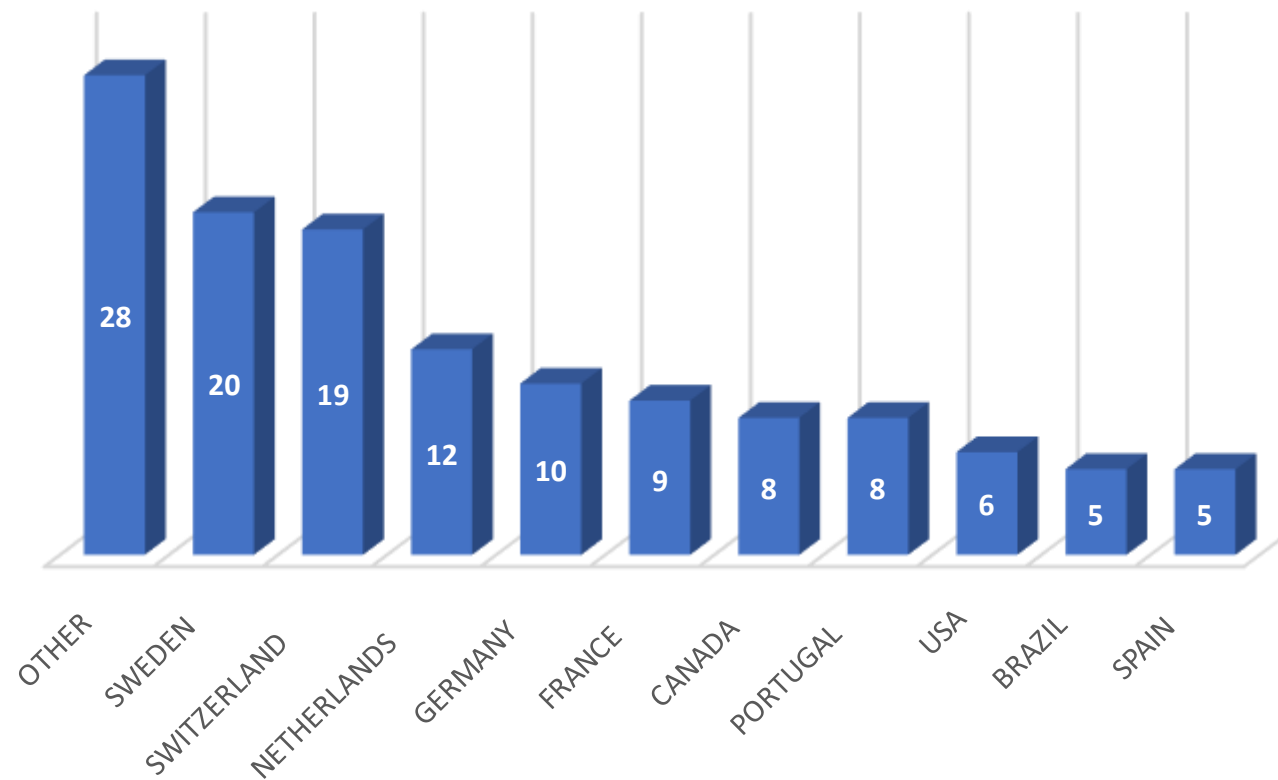


VILKA REGISTRERAR I DATABASEN?

> 100,000 patienter



SVERIGE ÄRTUNGA I SAMMANHANGET



OTHER: UK, COLOMBIA, ITALY, NORWAY, PHILIPPINES, SOUTH AFRICA, TAIWAN, URUGUAY, ARGENTINA, AUSTRALIA, BELGIUM, CHILE, DENMARK, INDIA, MEXICO, NEW ZEALAND, SINGAPORE

ERSTA
DANDERYD
ÖREBRO

ST GÖRAN
UMEÅ
ÖSTERSUND
VÄSTERÅS

LIDKÖPING
KARLSTAD
KALMAR
SKELLEFTEÅ

KUNGÄLV
SKÖVDE

NÄL
SAHLGRENSKA ÖSTRA

UPPSALA
SÖDERTÄLJE
NORRTÄLJE
KAROLINSKA

SUNDERBYN

2010

2023

VALIDERING AV DATABASEN

YIN et al.:VWS (March 2021)

COVERAGE:

MEAN COVERAGE (A) > 96%: Excellent

Conclusion: centers do not refrain from registering patients who are not doing well

ACCURACY:

LOS (A) 94% Excellent, (ck) 0.86 Perfect

COMPLICATIONS (A) 91% Excellent, (ck) 0.80 Substantial

REOP (A) 99% Excellent, (ck) 0.94 Perfect

ALL OTHER (N=9) (A) Excellent, (ck) Fair-perfect

Conclusion: "data in" can be trusted

MISSING VALUES:

EIAS: Mean missing rate: 2.8 %

RATE : Overall good, but not in termination of u-kad: 8.7% and intraop bloodloss: 5.8%, one hospital: intraop bloodloss 52.7%

Conclusion: some variables are more prone to be missing, especially in some hospitals



NYA DATA

SVENSKA DATABASEN: 2010 - 2022

ERSTA	N = 2321
DANDERYD	N = 2502
ÖREBRO	N = 1590
ST GÖRAN	N = 1362
UMEÅ	N = 1029
SKÖVDE	N = 813
SAHLGRENSKA / ÖSTRA	N = 2365

KAROLINSKA

N = 384

EJ MED I VALIDERINGEN EJ REGISTRERAT ALLA PATIENTER

TOTALT: 12366 TARMRESEKTIONER

KOMPLIKATIONER EFTER KOLOREKTAL KIRURGI (ERAS)

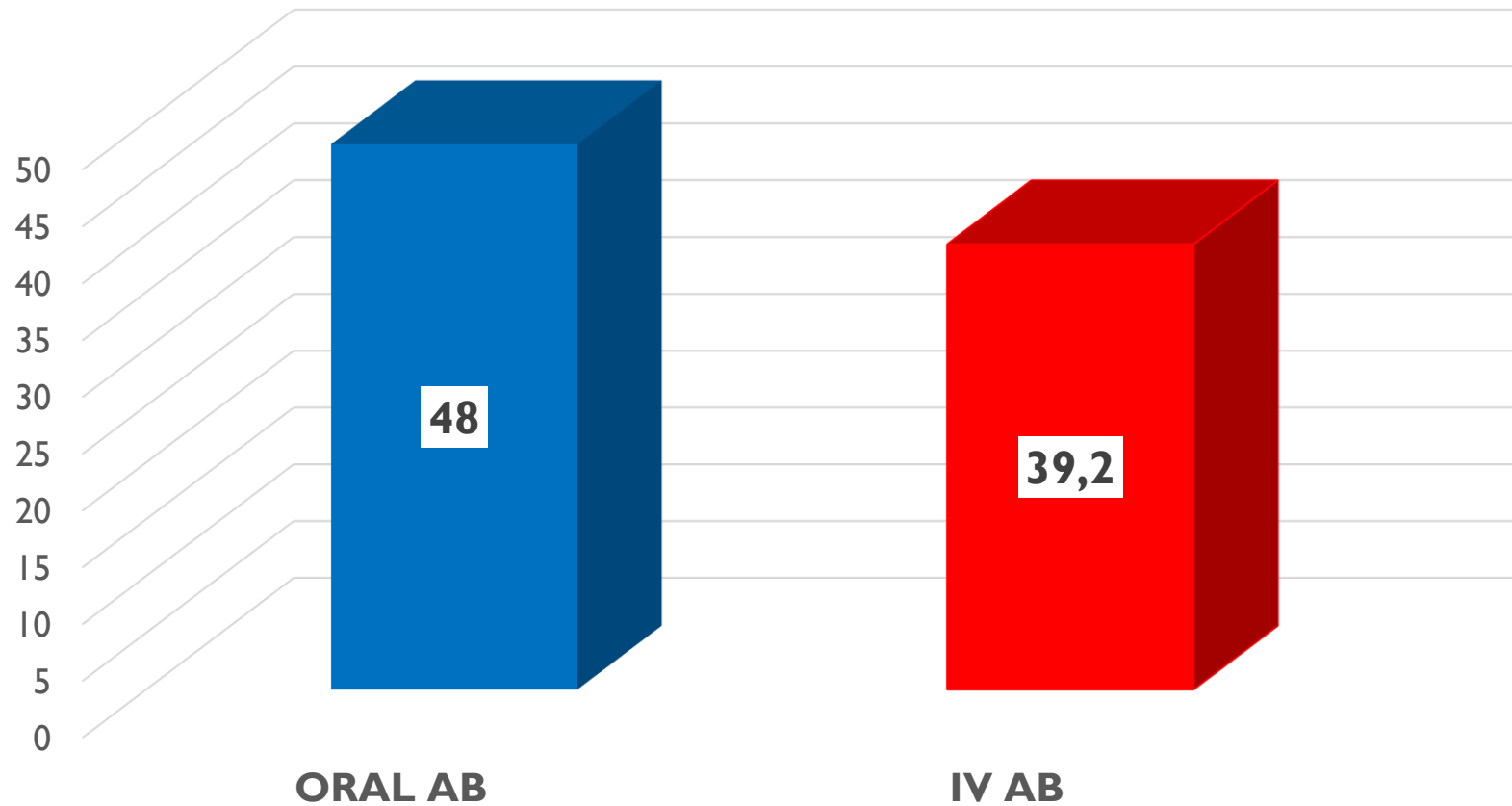
- 45% AV PATIENTERNA HAR MINST EN KOMPLIKATION (INOM 30 DAGAR)

TÄNK DÅ PÅ ATT ERAS PROTOKOLLET VISATS MINSKA KOMPLIKATIONSRIKSEN MED 50%

-Clavien I-II 31%
-Clavien IIIa –V 14 %

- 0.17% AV PATIENTERNA DÖR INOM 30 DAGAR
- 8.1% AV PATIENTERNA REOPERERAS

KOMPLIKATIONER %



TIVA



13%

Komplikationer	46% ★
Temp	36.5
Anastomosläckage	4.0% ★
Vårdtid	6.11 ★

INHALATION



87%

Komplikationer	39%
Temp	36.4
Anastomosläckage	4.7%
Vårdtid	7.14

Use of inotropes & vasopressors

- To support the failing heart
- To support the failing peripheral vasculature
- To correct hypotension during anaesthesia (general or regional)

JA

Vätska dag 0: 2600ml

Anastomosläckage: 4.8%

Komplikationer: 48.5% ★

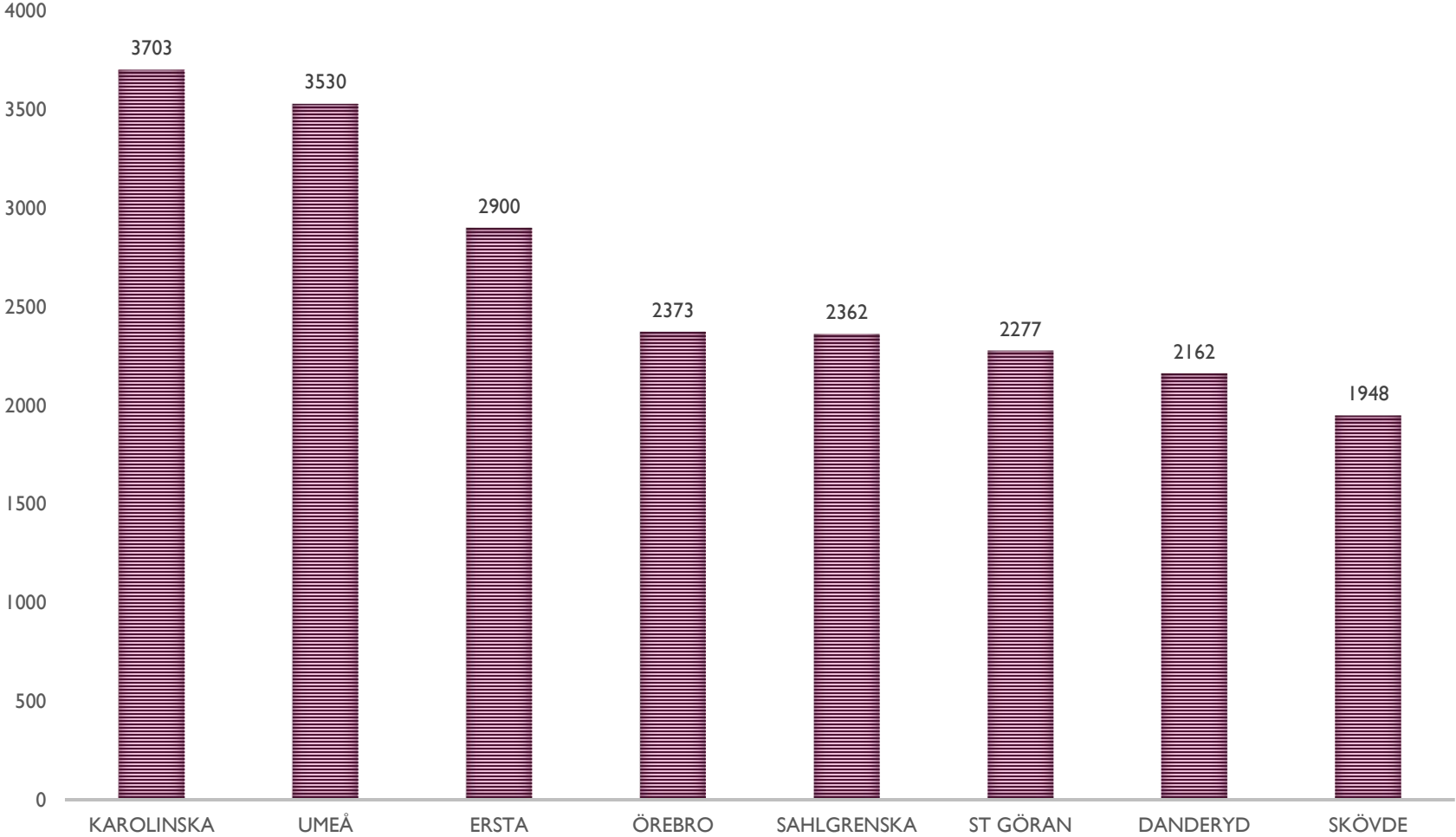
NEJ

Vätska dag 0: 2300ml

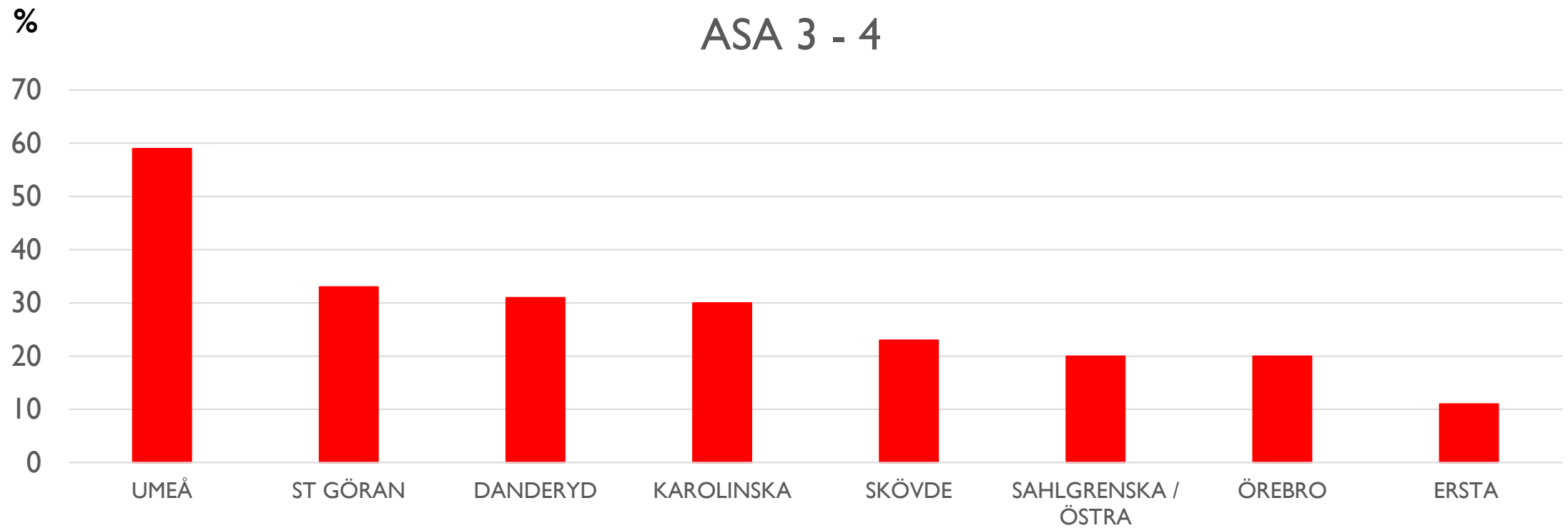
Anastomosläckage: 4%

Komplikationer: 37.9%

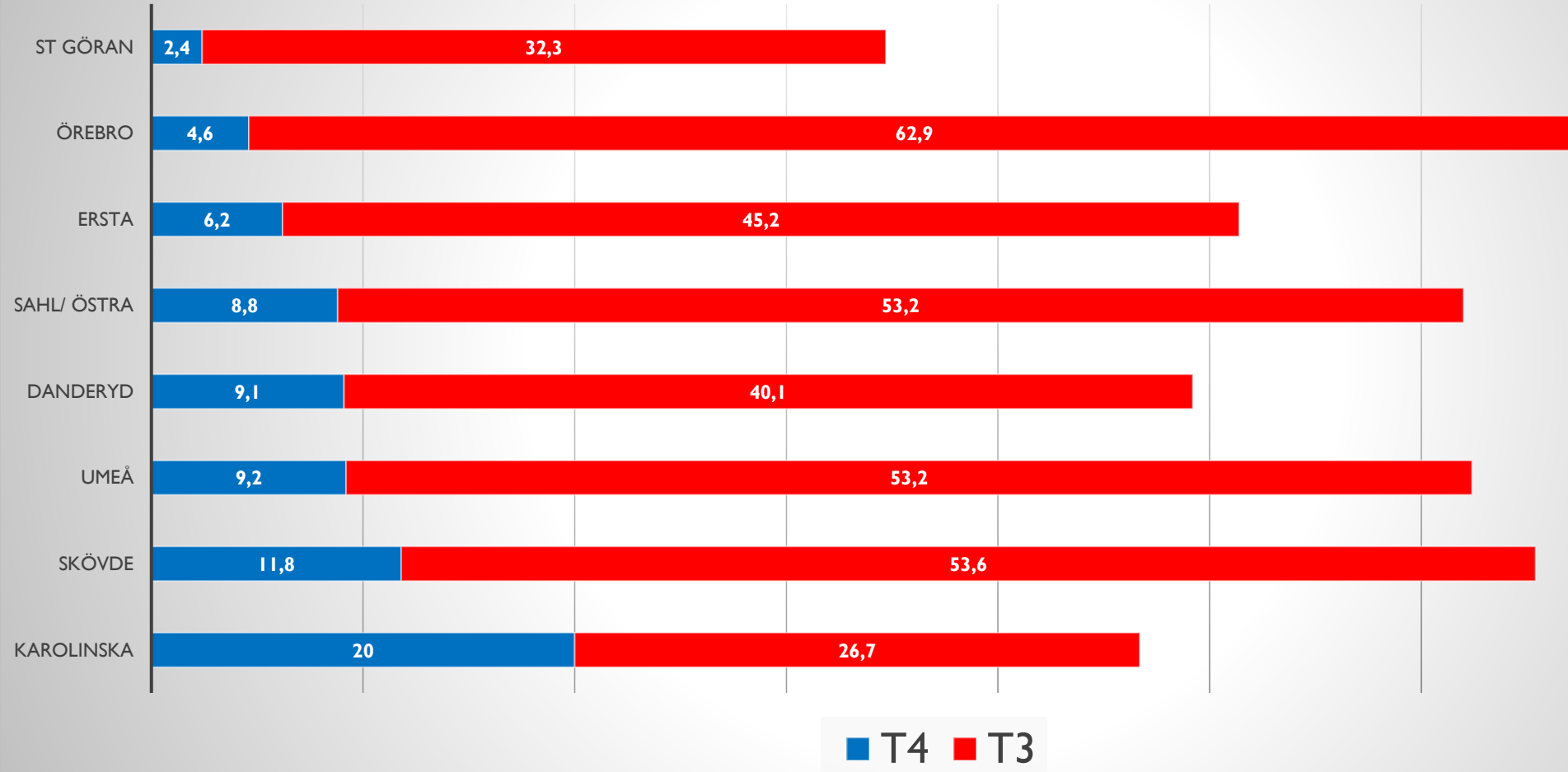
IV VÄTSKA DAG 0 (ML)



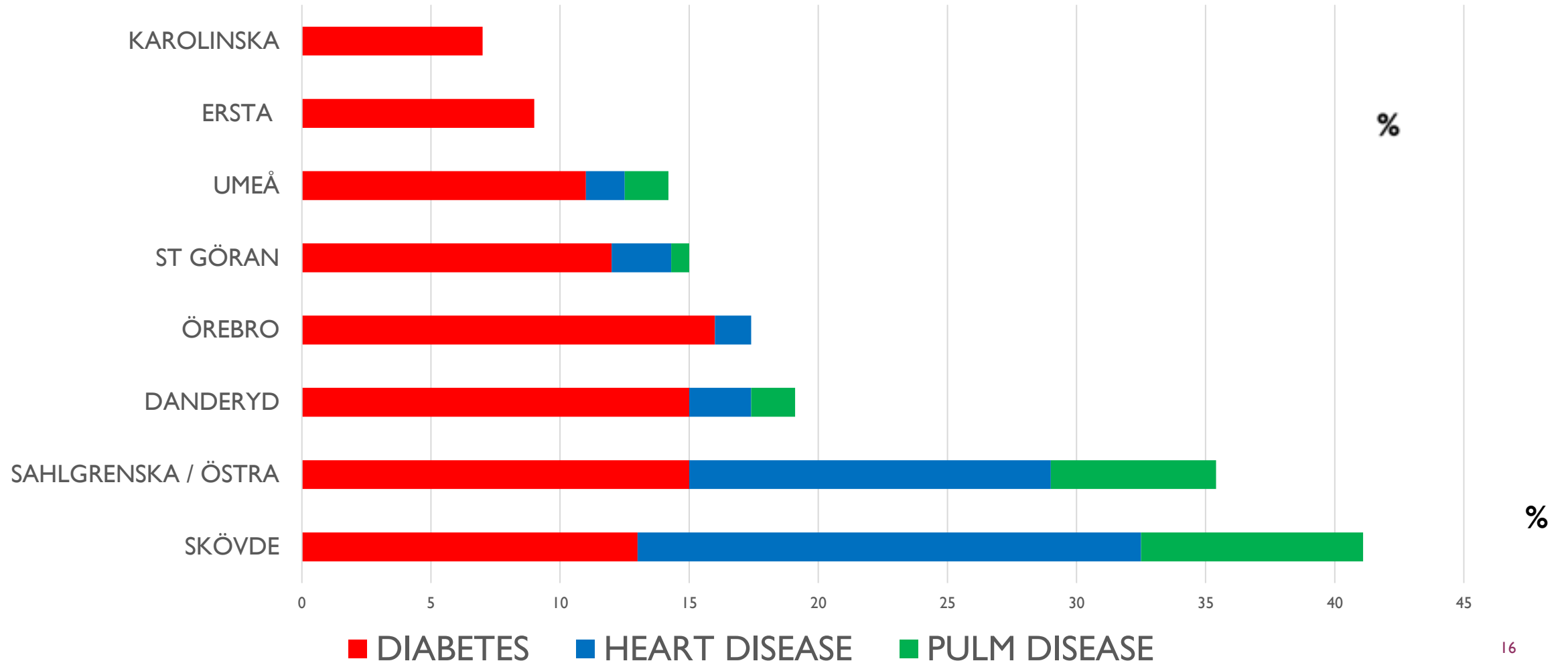
FRÄMRE RESEKTIONER: 1941 PATIENTER



T – STADIE, ALLA ÅR

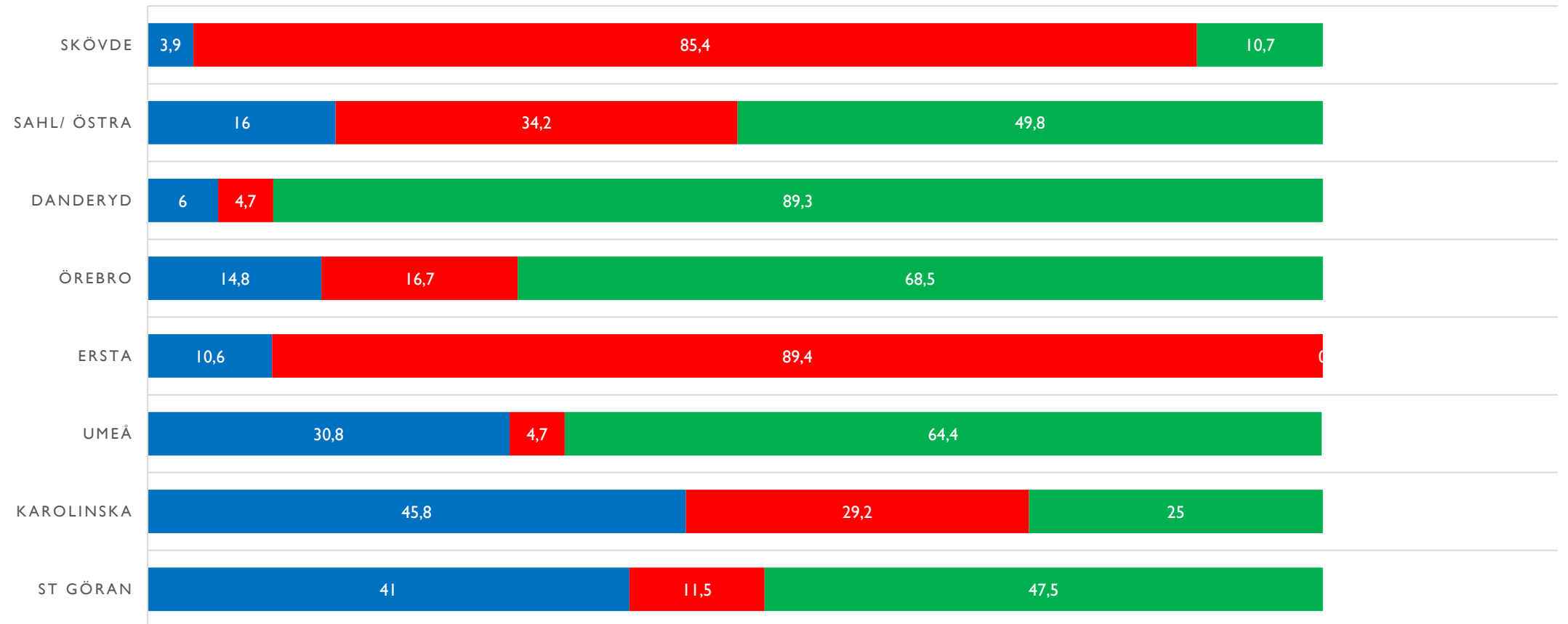


SAMTIDIGA SJUKDOMAR ALLA ÅR

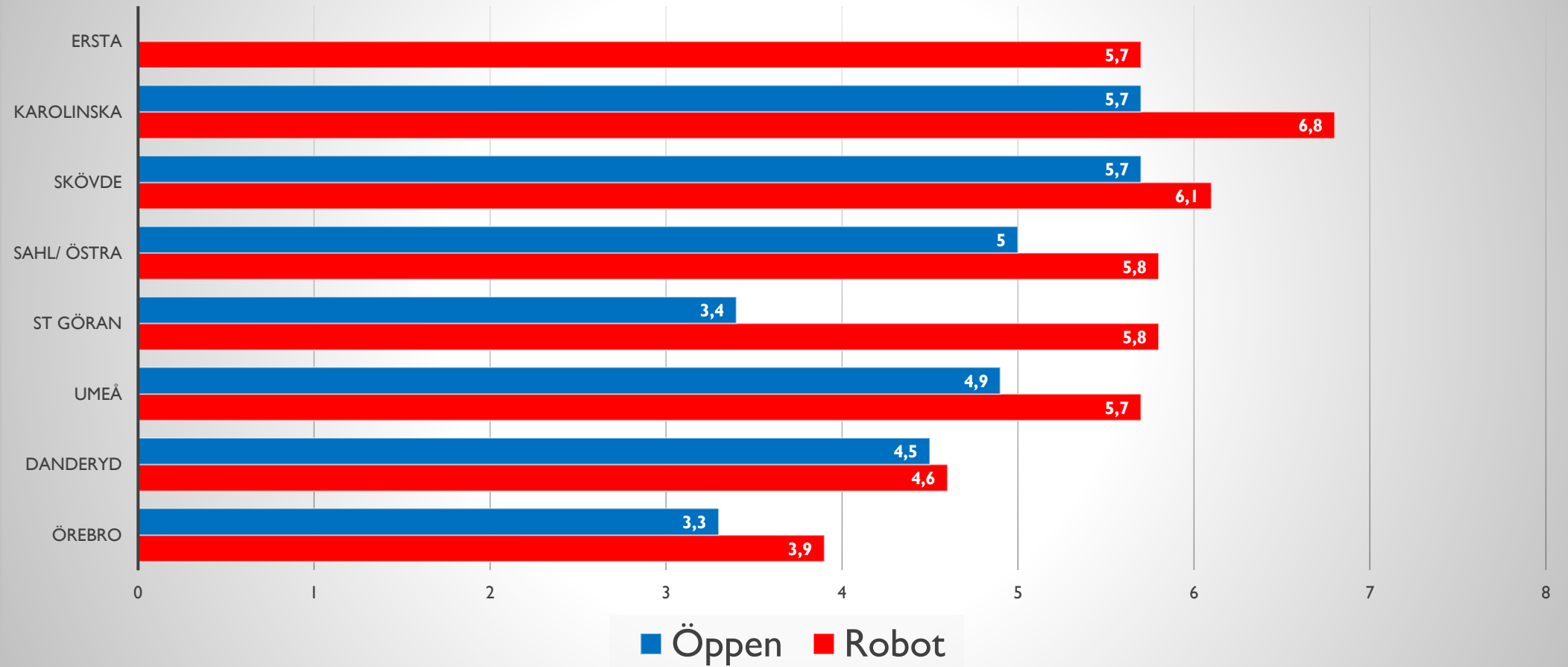


OPERATIONSMETOD 2018-2021, T1-T3

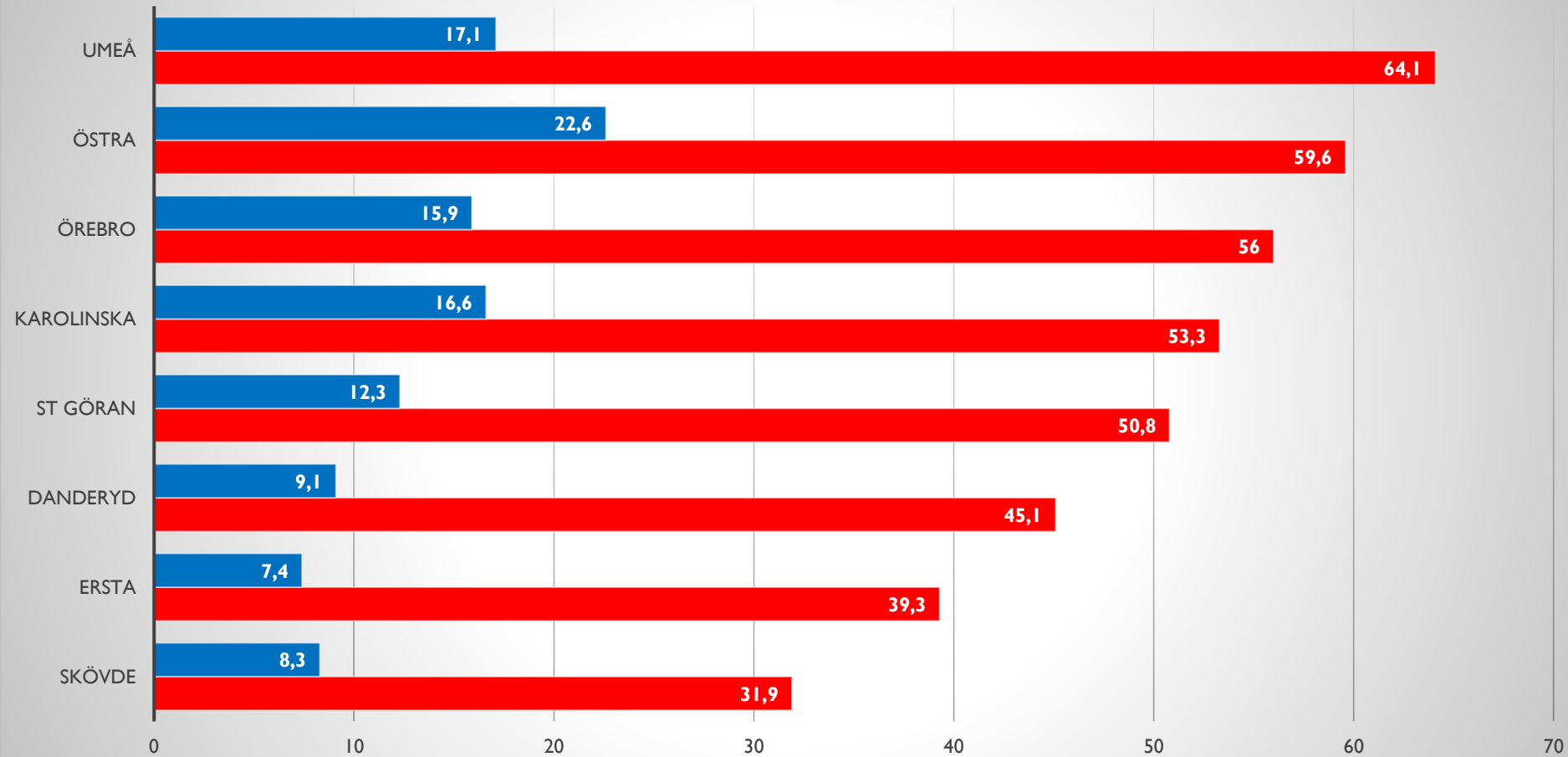
■ Öppen ■ Lap ■ Robot



OPTID (2018-2021) T1-T3, MEDELVÄRDE TIMMAR

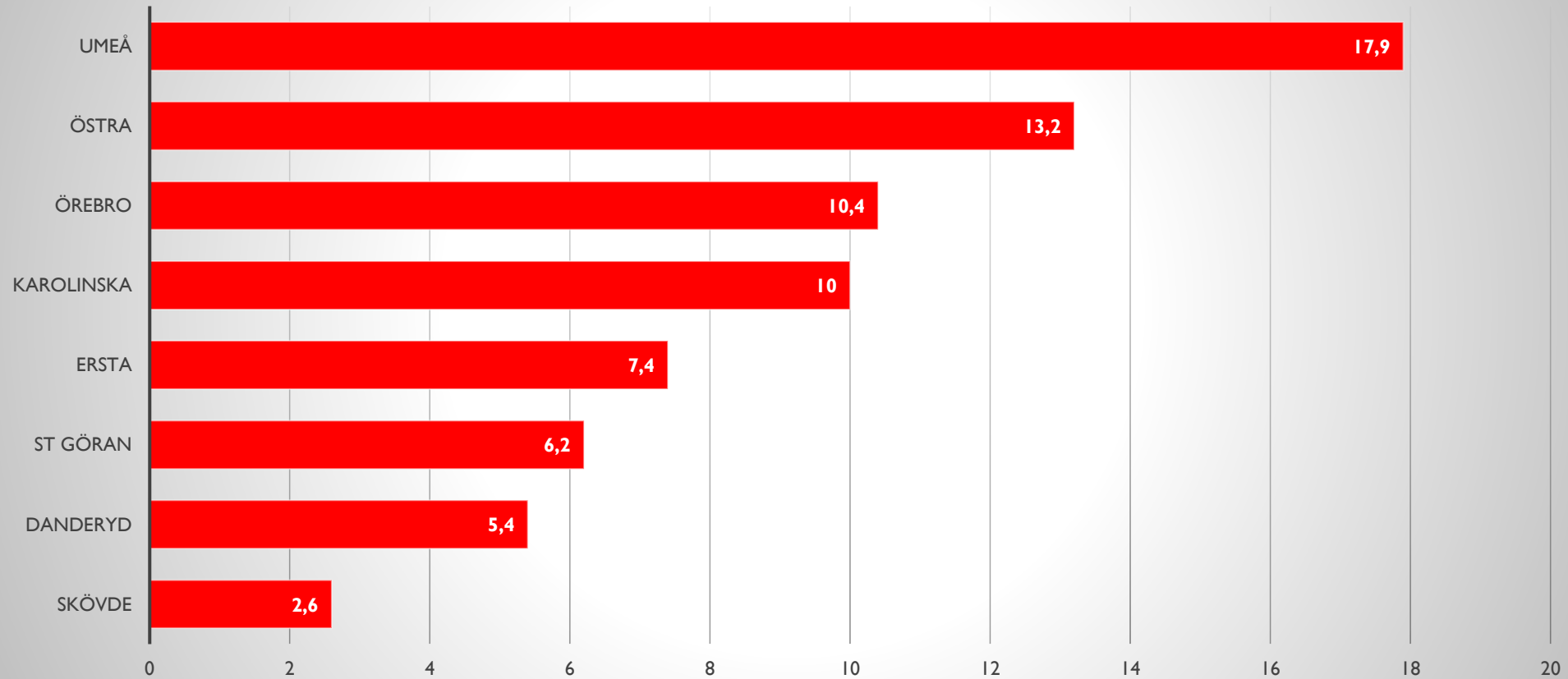


KOMPLIKATIONER T1-T3, 2018-2021

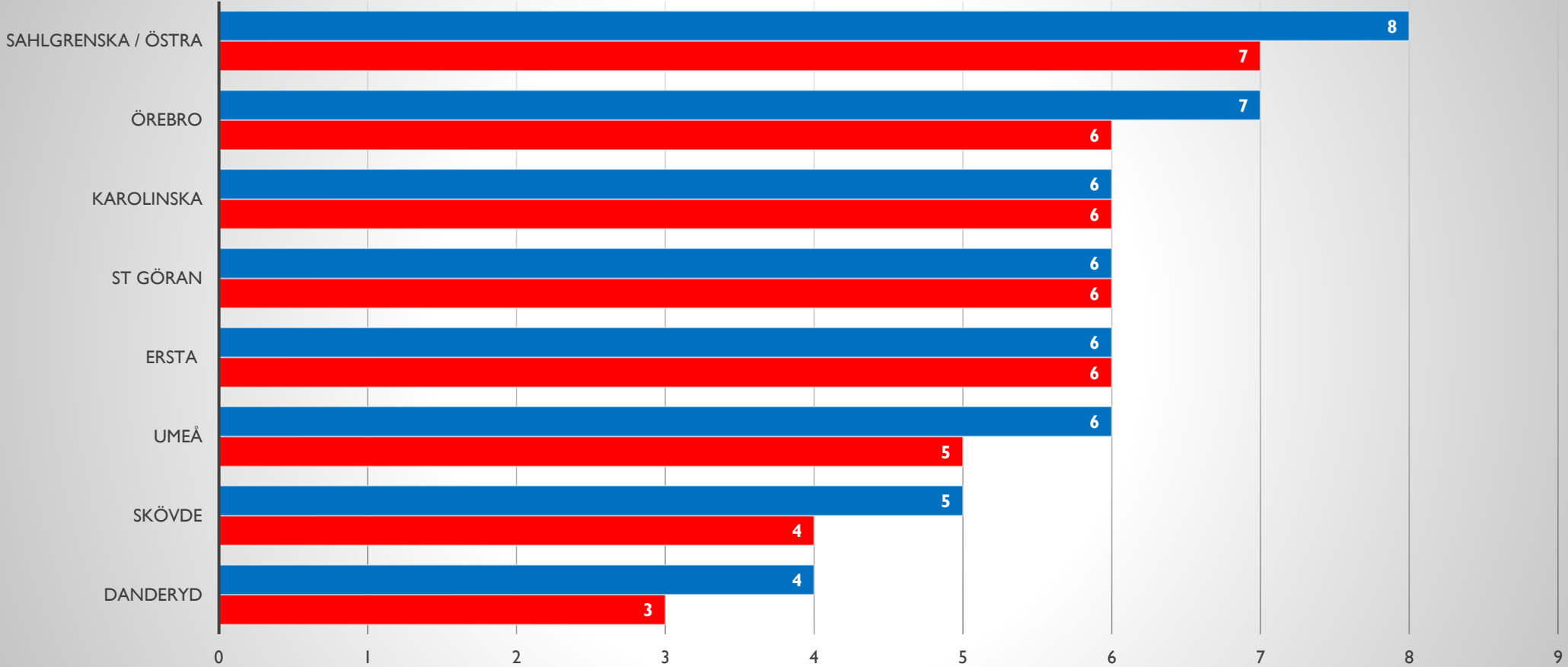


■ Clavien IIIa-V ■ Alla komplikationer

AL, 2018-2021, T1-T3



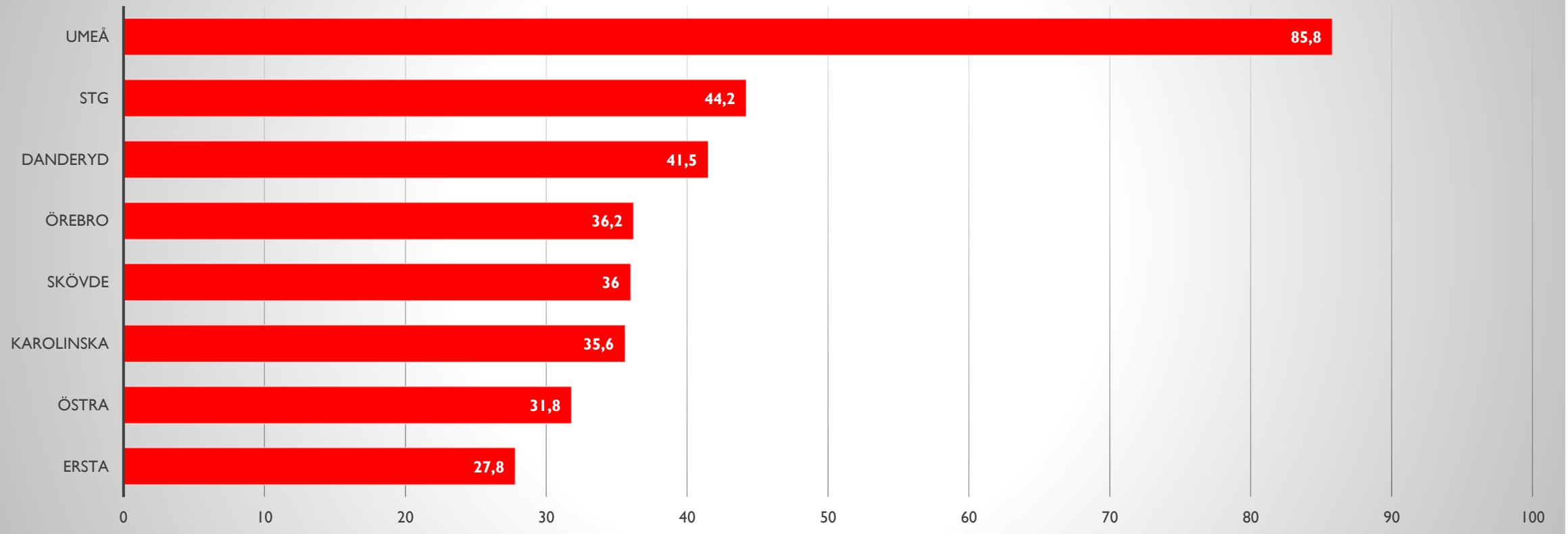
MEDIAN LENGTH OF STAY, 2018-2021



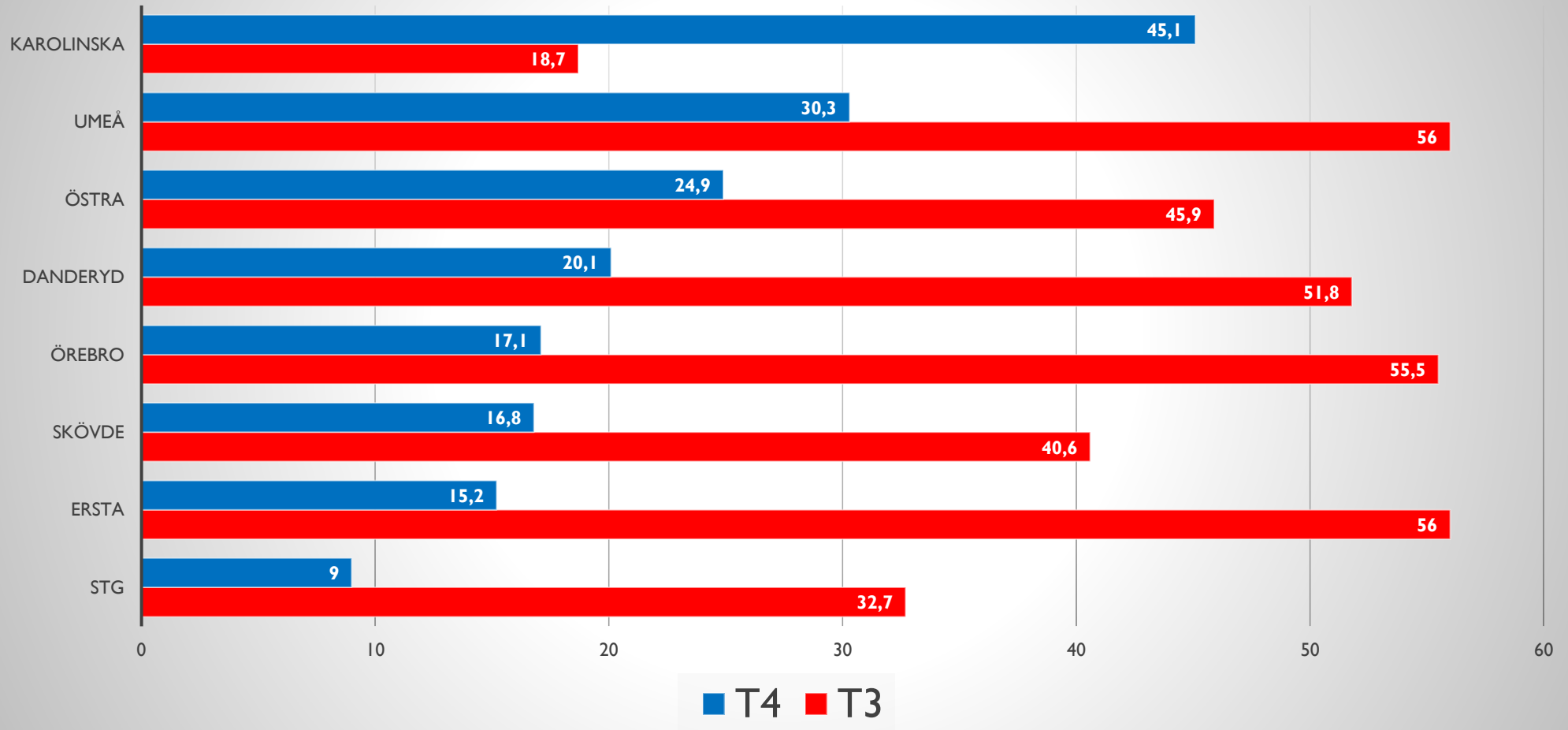
■ TOTAL LOS ■ LOS

HÖGERSIDIGA N=3,735

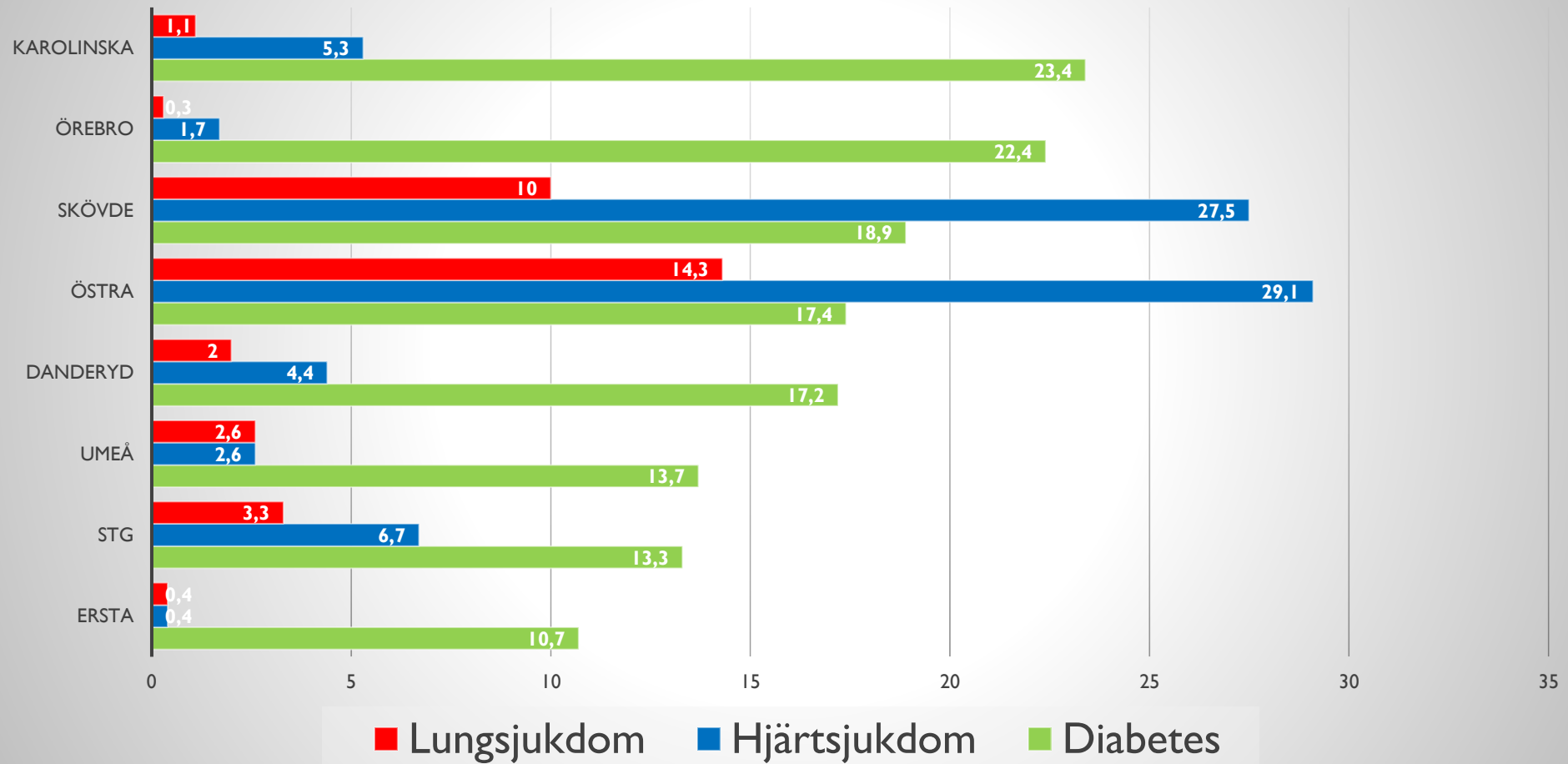
ASA 3-5



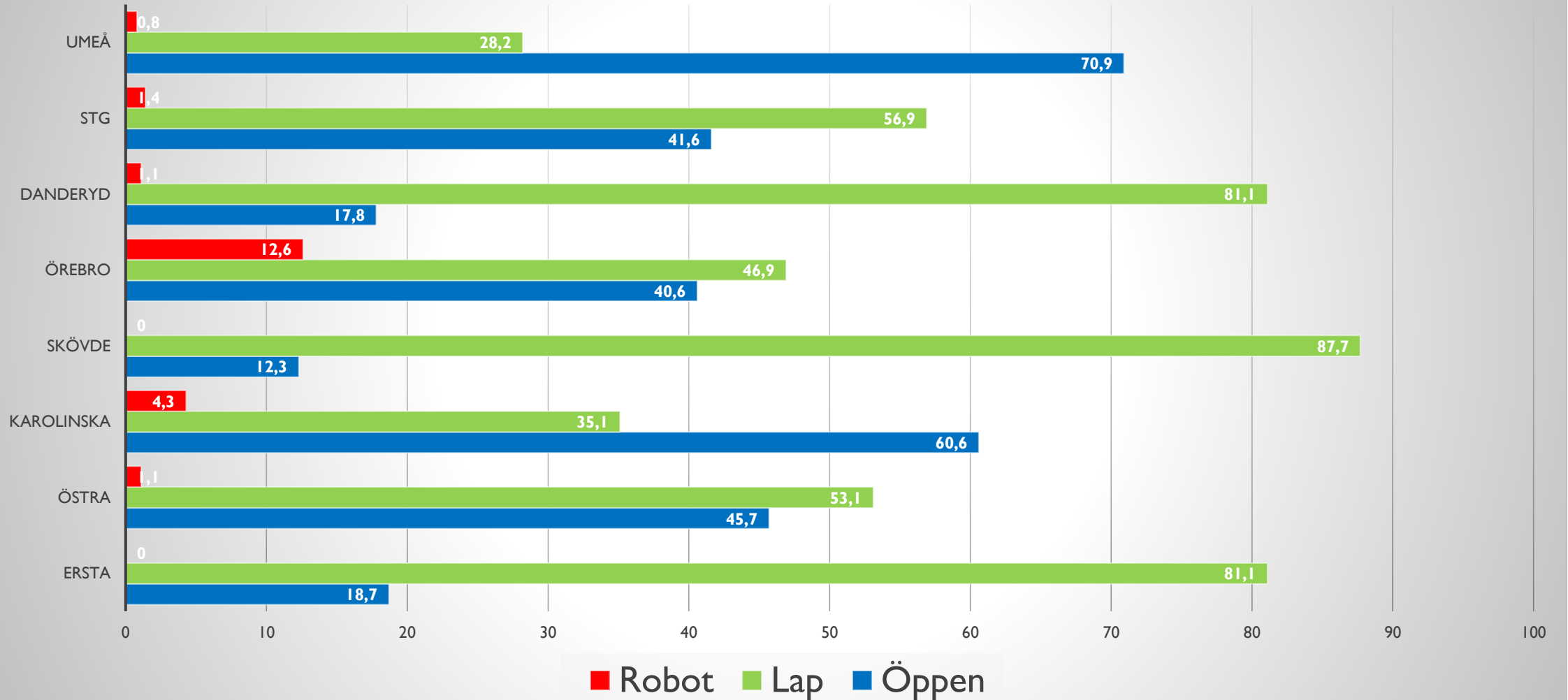
Andel T3 och T4



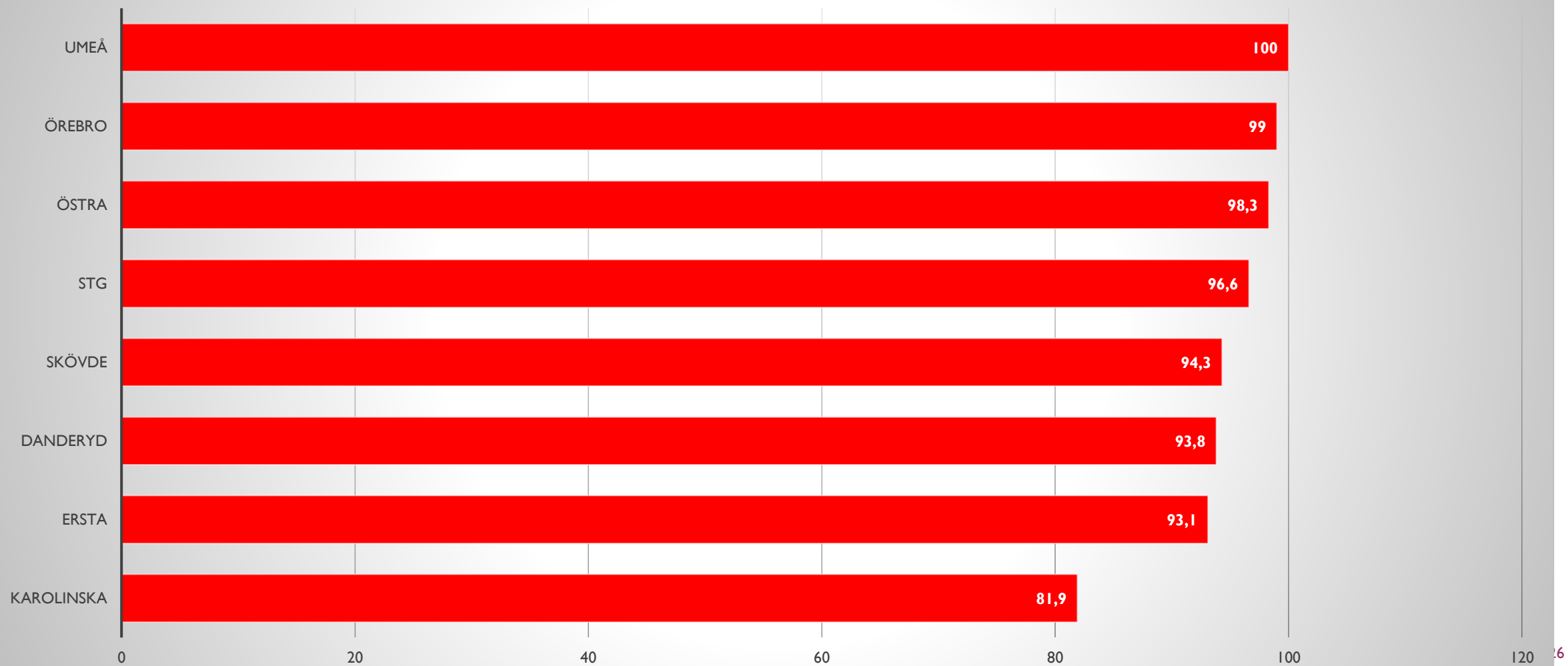
Samtidiga sjukdomar



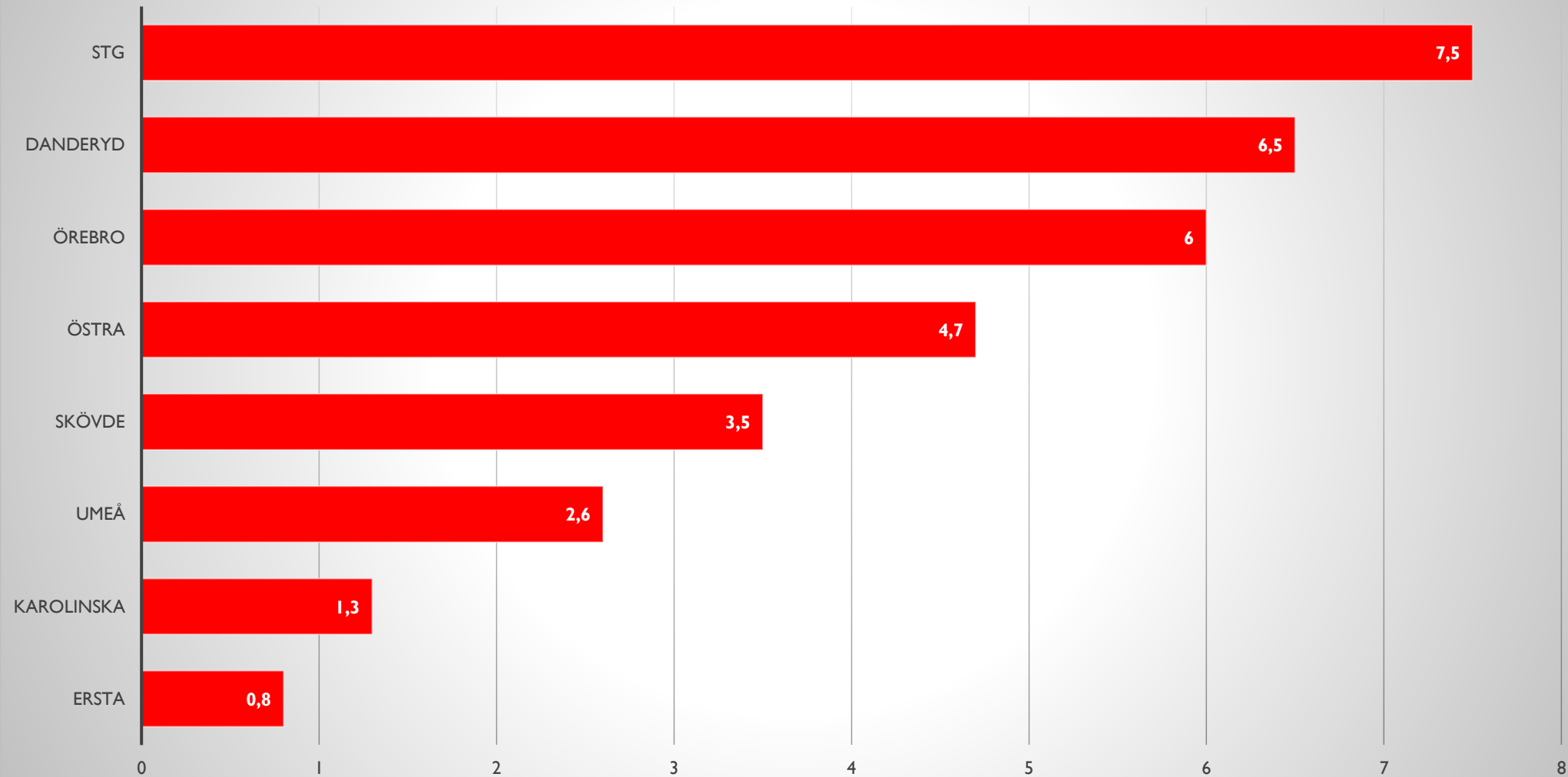
Teknik



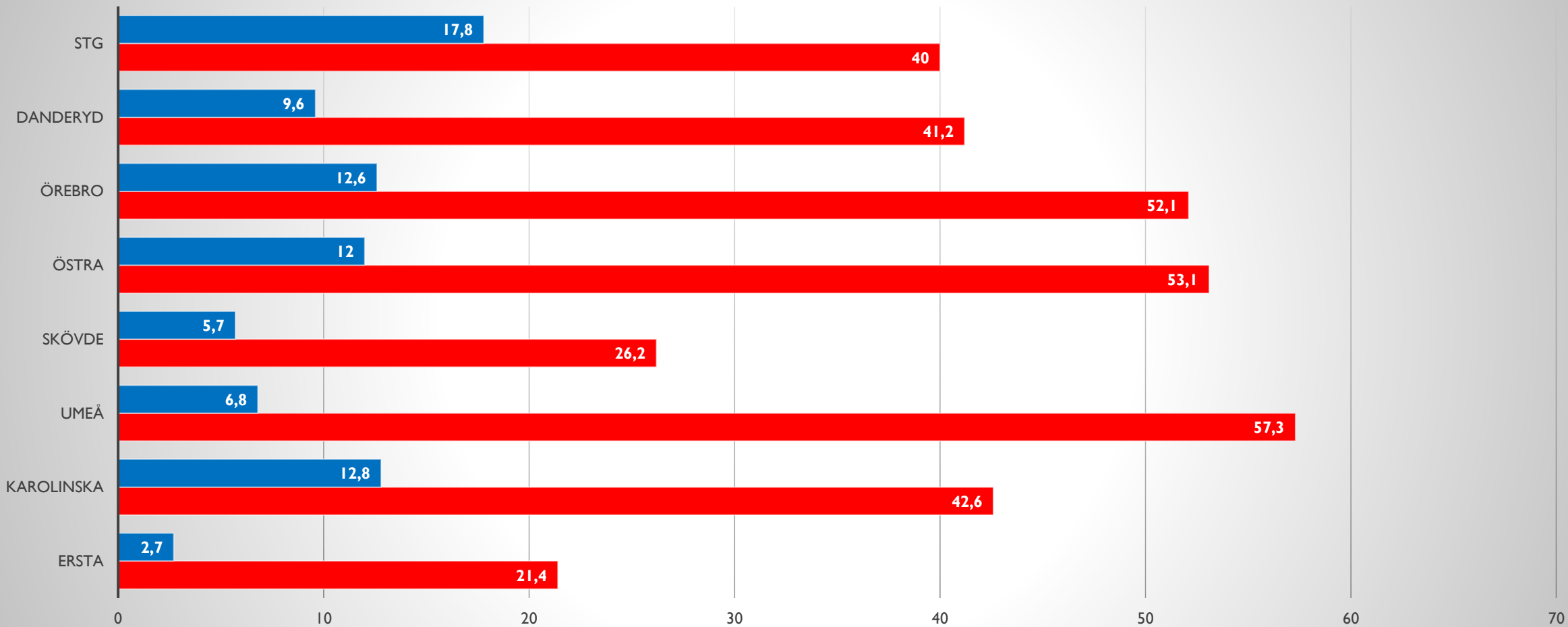
Anastomos



AL %

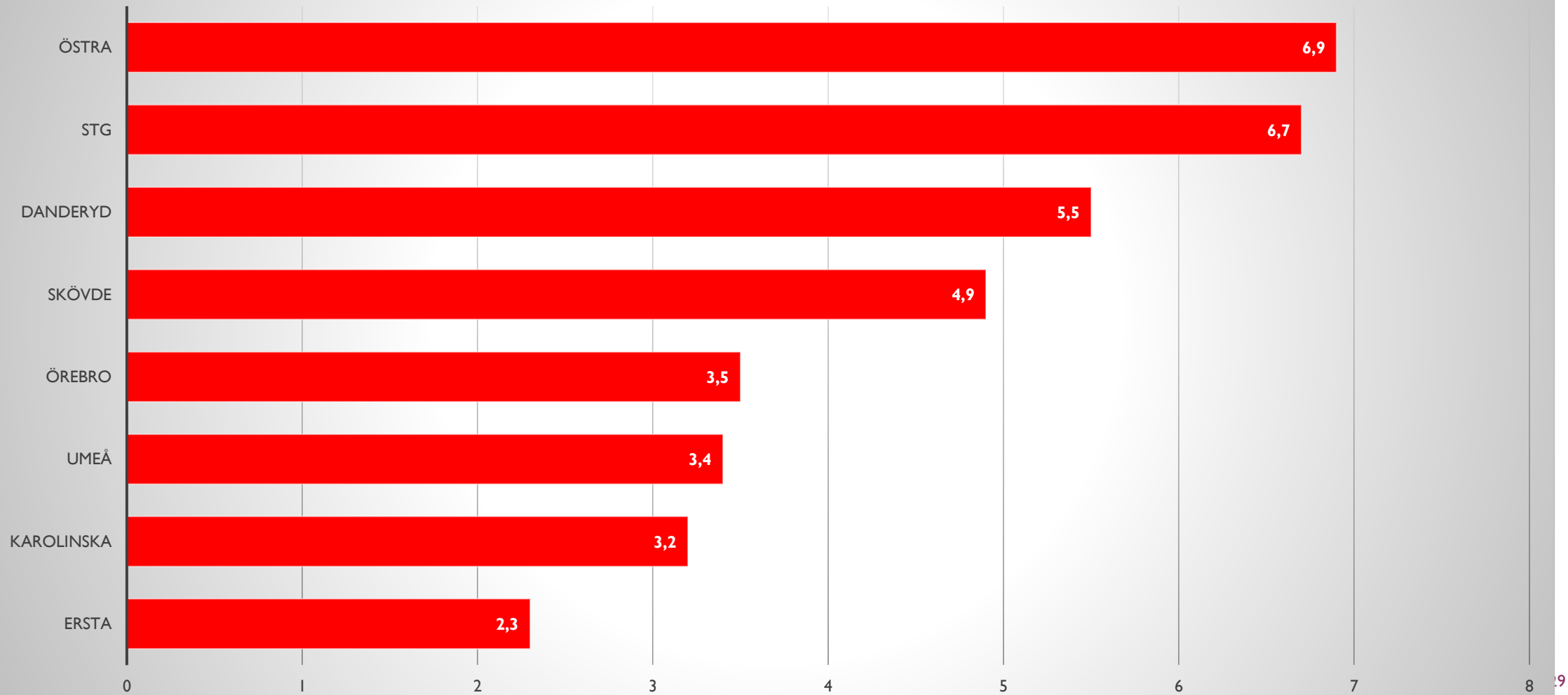


KOMPLIKATIONER ALLA

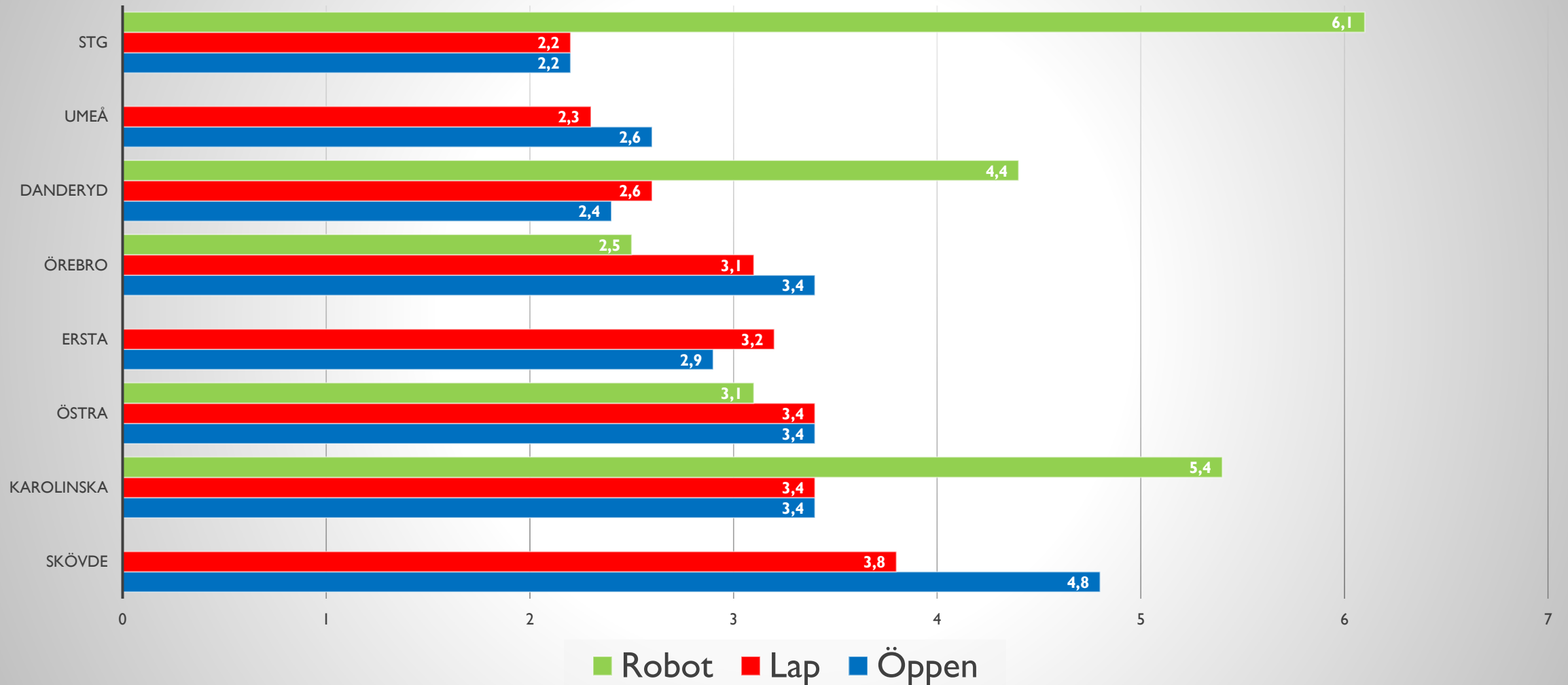


■ Clavien >2 ■ Alla

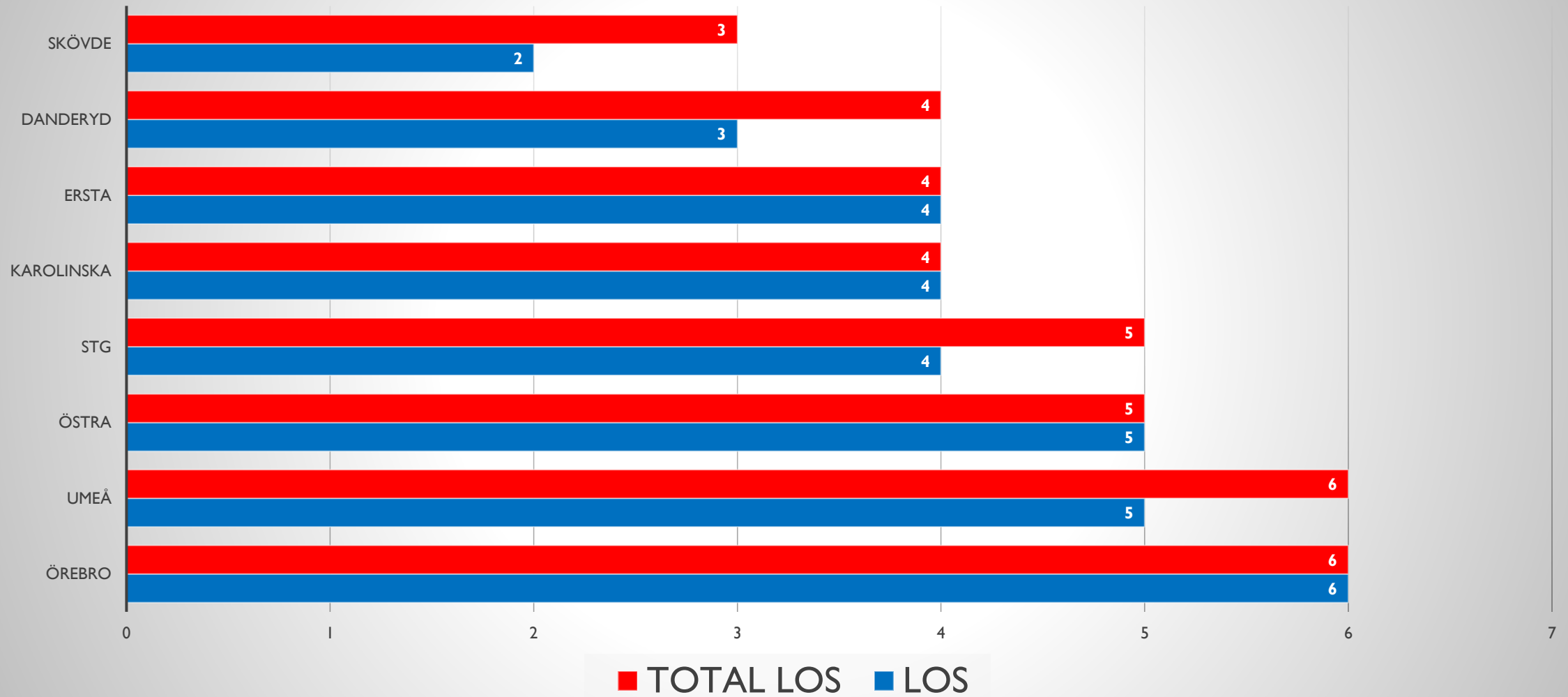
Reop



Operationstider T1-T3



VÅRDTID T1-T3



SAMMANFATTNING

- I DESSA EXEMPEL HAR FÖR FÅ VARIABLER ANVÄNTS FÖR ATT KORRIGERA FÖR BIAS
- MEN, DESSA VARIABLER FINNS I DATABASEN
- DET ÄR VIKTIGT ATT REGISTRERA ALLA PATIENTER OCH ALLA VARIABLER
- LEVANDE BENCHMARKING FUNKTION = VIKTIG