

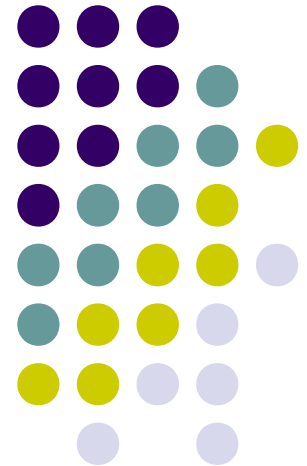
FINHYST 2006

GKS 27.9.2007

LL Tea Brummer

Sairaalalääkäri

HYKS Naistenklinikka



Study Design FINHYST 2006



Objective:

- Current hysterectomy trends “in real life”
- Complications
- Recovery from surgery
- Quality of life after surgery

Prospective Multicentre 1.1.- 31.12.2006

Exclusion: Malignancy

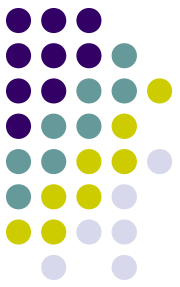
- Questionnaires:

SURGEONS 1. at primary operation 2. late appearance of complications

PATIENTS postoperatively at 2 months (+ Quality of life 0-2-6 months)

National Finnish Quality assessment

Background: FINHYST 1996



A similar national multicentre hysterectomy study 10 years ago:

- Ureter and bladder injuries predominant in laparoscopic group (1,1% and 1,3%)
- Bowel injuries in vaginal group (0,5%)

Human Reproduction Vol16, No7, pp.1473-1478, 2001 :

Human Reproduction Vol.16, No.7 pp. 1473-1478, 2001

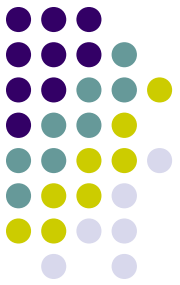
Morbidity of 10 110 hysterectomies by type of approach

**Juha Mäkinen^{1,8}, Jari Johansson², Candido Tomás³, Eija Tomás³, Pentti K.Heinonen³,
Timo Laatikainen⁴, Minna Kauko⁵, Anna-Mari Heikkinen⁶ and Jari Sjöberg⁷**

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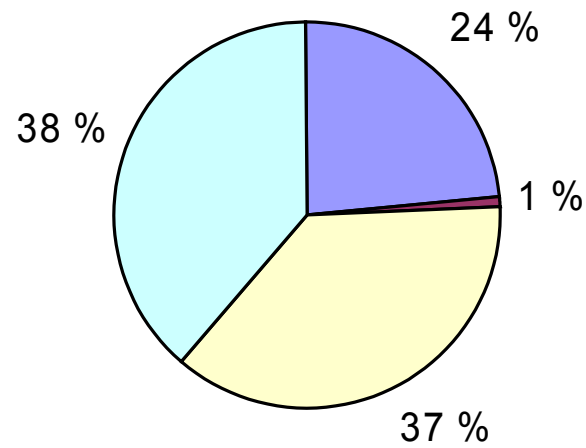
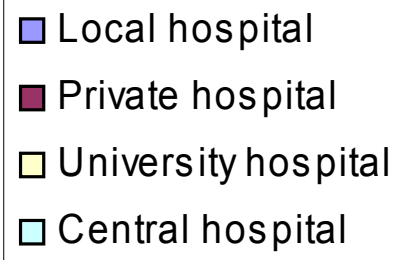
⁸To whom correspondence should be addressed. E-mail: juha.makinen@tyks.fi

Multicentre



Hospital	(n)
University	7
Central	16
Local	23
Private	7
All	53

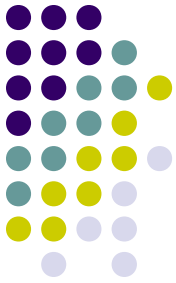
Distribution of patients:



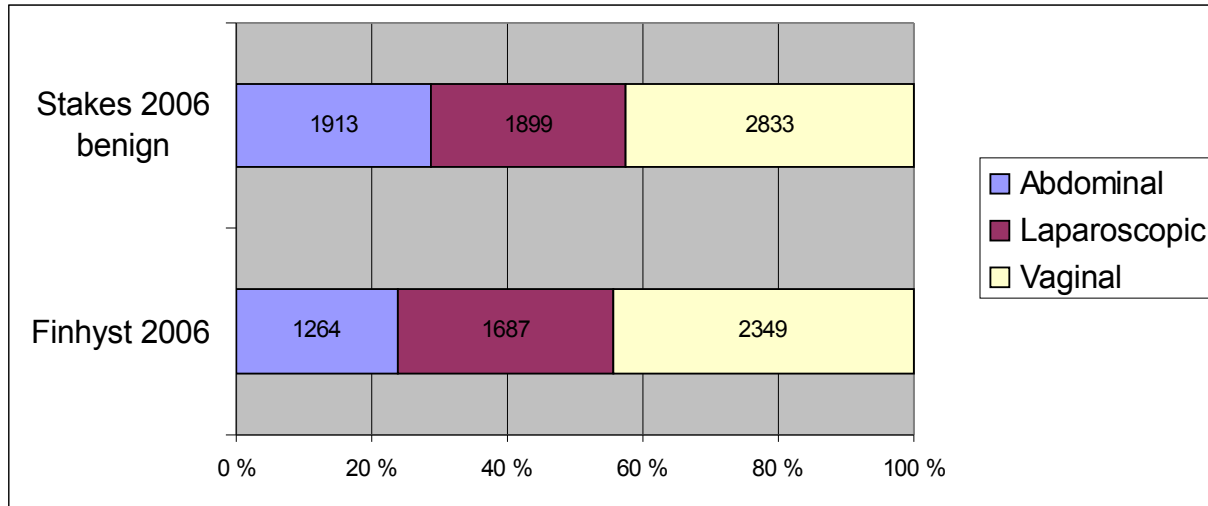
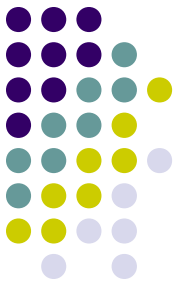
HOSPITAL

N of patients

HYKS Kätilöopiston sairaala	445	Rauman aluesairaala	81
HYKS Naistenklinikka	390	Länsi-Pohjan keskussairaala	81
TYKS Naistenklinikka	311	Lapin keskussairaala	79
OYS Naistenklinikka	273	Vammalan aluesairaala	72
Etelä-Pohjanmaan keskussairaala	237	Vaasan keskussairaala	72
Pohjois-Karjalan keskussairaala	234	Mikkelin keskussairaala	68
TAYS Naistenklinikka	201	Salon aluesairaala	63
Keski-Suomen keskussairaala	199	Mäntän aluesairaala	61
Satakunnan keskussairaala	187	Forssan sairaala	60
Päijät-Hämeen keskussairaala	185	Länsi-Uudenmaan sairaala	52
KYS Naistenklinikka	160	Loimaan aluesairaala	42
Valkeakosken aluesairaala	158	Oulaskankaan sairaala	41
HYKS Jorvin sairaala	157	Pietarsaaren aluesairaala	41
Etelä-Karjalan keskussairaala	143	Raahen aluesairaala	36
Keski-Pohjanmaan keskussairaala	140	Iisalmen sairaala	35
Hyvinkään sairaala	116	Ålands centralsjukhus	34
Kainuun keskussairaala	115	Varkauden sairaala	33
Kuusankosken sairaala	103	Nokian terveystakeskus	28
Kymenlaakson keskussairaala	102	Turunmaan sairaala	23
Kanta-Hämeen keskussairaala	99	Vakka-Suomen sairaala	14
Savonlinnan keskussairaala	89	Pieksämäen sairaala	7
Porvoon sairaala	88	Heinolan sairaala	5
Lohjan sairaala	86	Sairaala Lapponia	4



- register vs Finhyst



Stakes
2006

Finhyst
2006



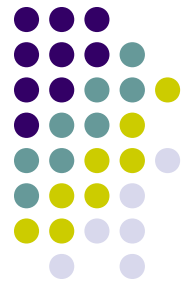
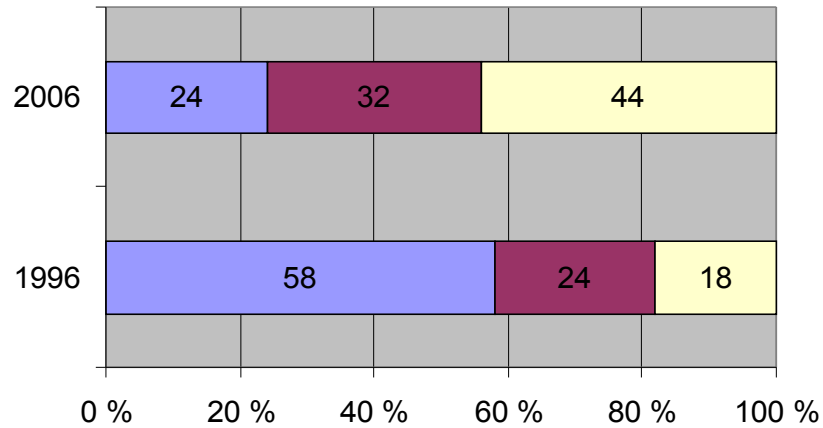
Hysterectomy
benign cause (n)

6645

5300

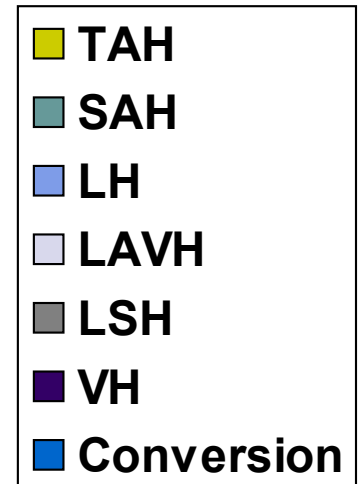
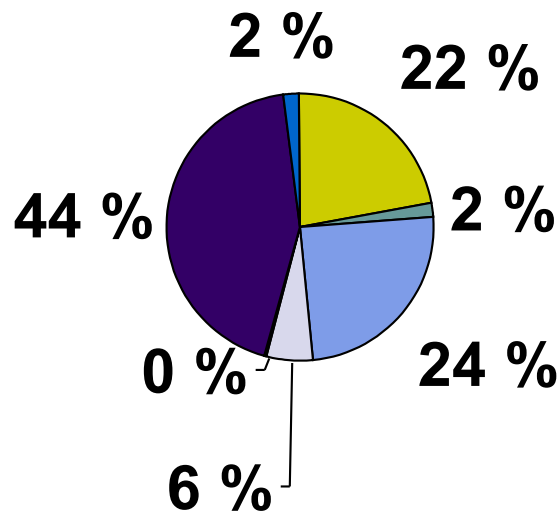
80%

Results

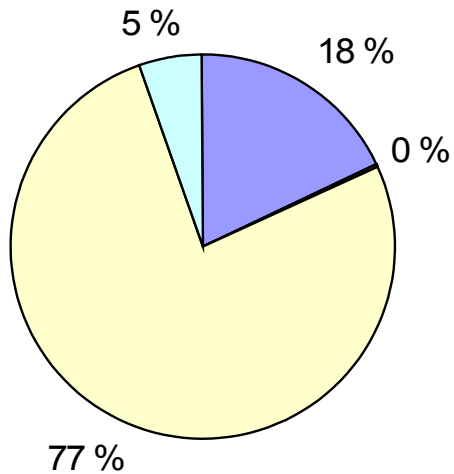
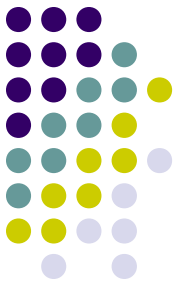


N=5300, Vaginal hysterectomy most common

Hysterectomy	n
TAH	1178
SAH	86
LH	1293
LAVH	304
LSH	3
VH	2337
Conversion	99
All	5300

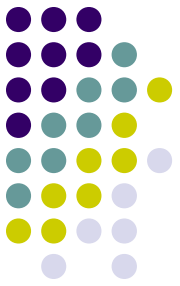


Laparoscopic hysterectomies



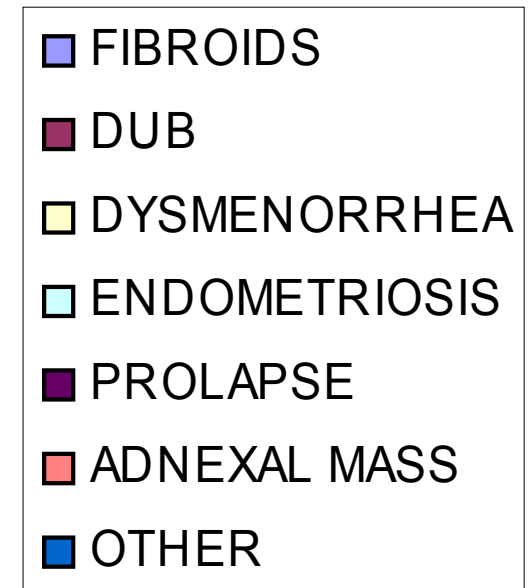
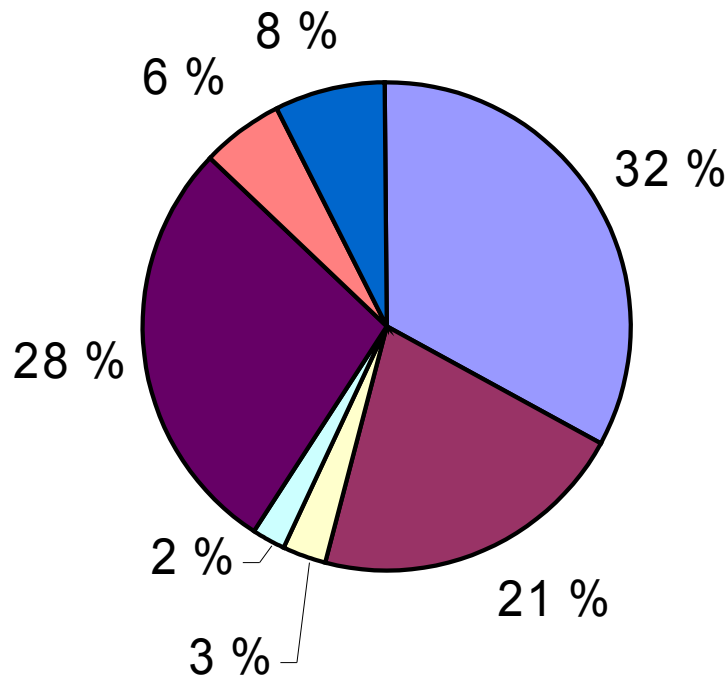
Hysterectomy	n
LH	1293
LAVH	304
LSH	3
Conversion	87
All	1687

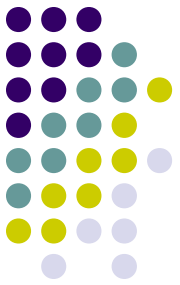
Subtotal = Supracervical hysterectomy percentages



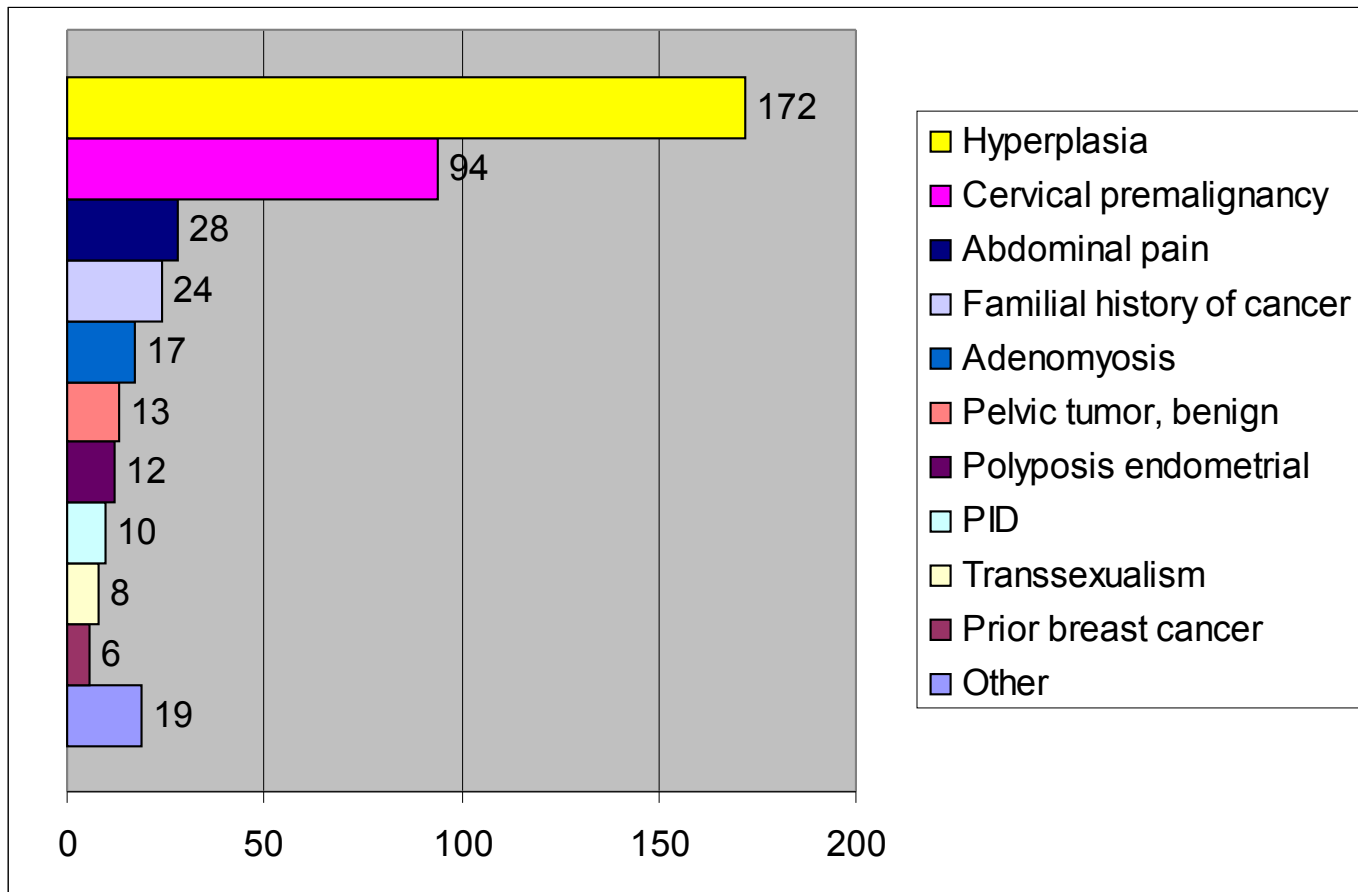
Year	Abdominal	Laparoscopic
1996	11,6%	2,1%
2006	6,8% (n=86)	0,2% (n=3)

Main indication to hysterectomy in 2006



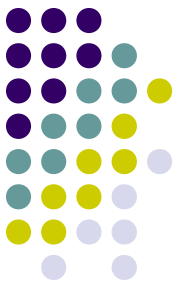


Main Indication “other”

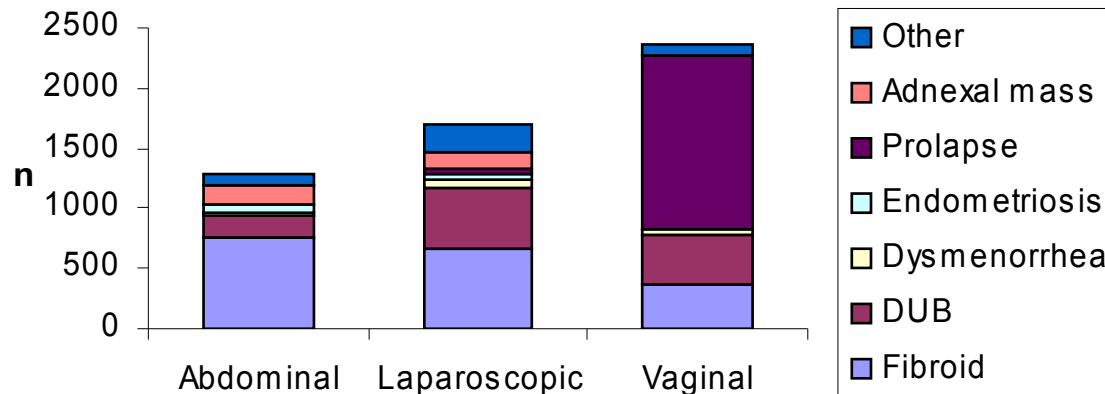


N of patients

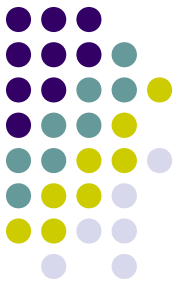
Indications by approach



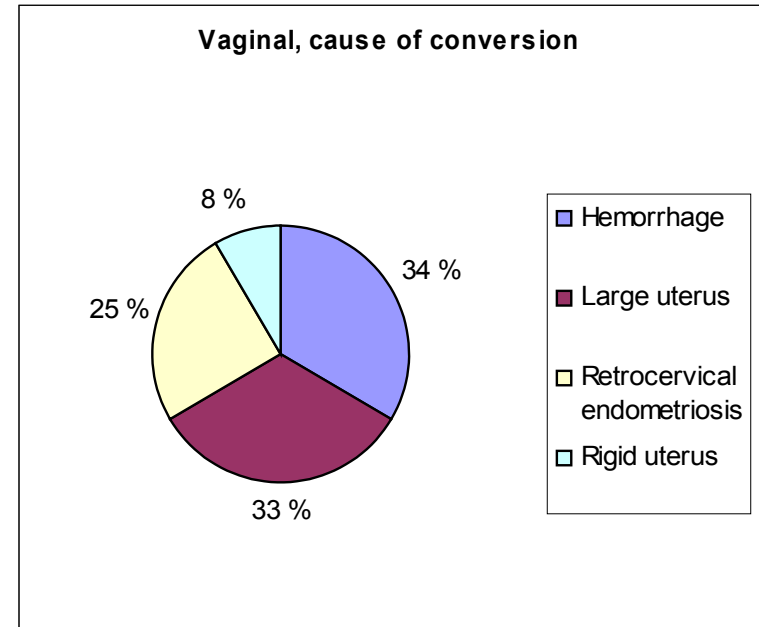
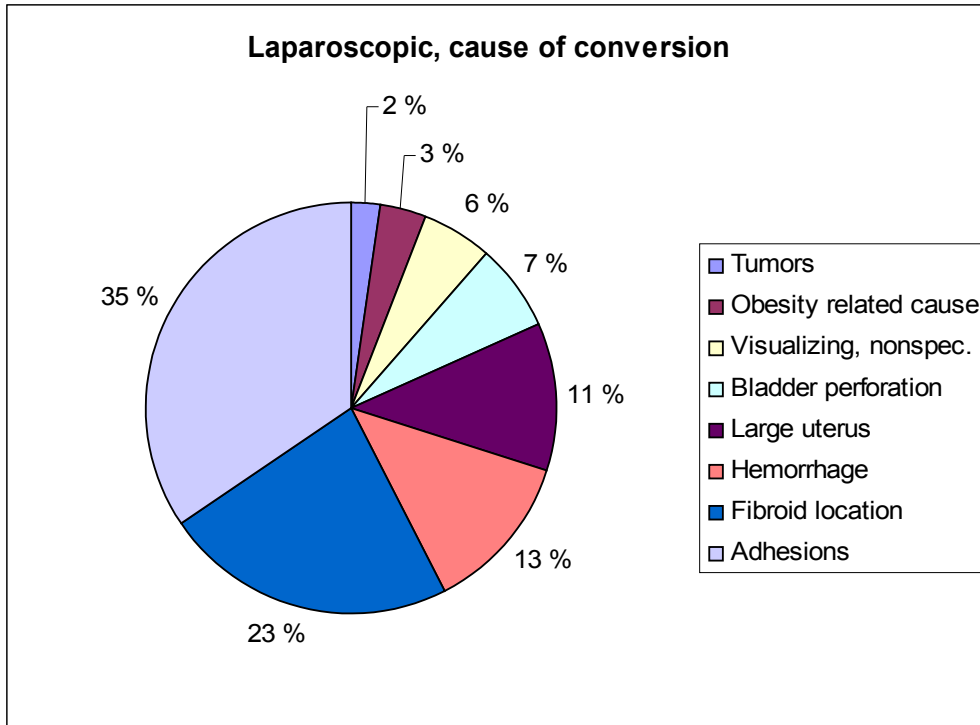
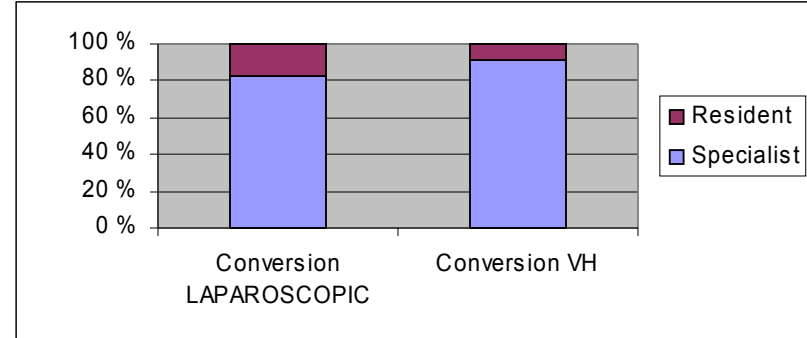
	Fibroid	DUB	Dysmenorrhea	Endometriosis	Prolapse	Adnexal mass	Other
Abdominal	59%	14%	2%	6%	0%	12%	7%
Laparoscopic	39%	30%	4%	3%	3%	8%	13%
Vaginal	15%	18%	2%	0%	61%	0%	4%



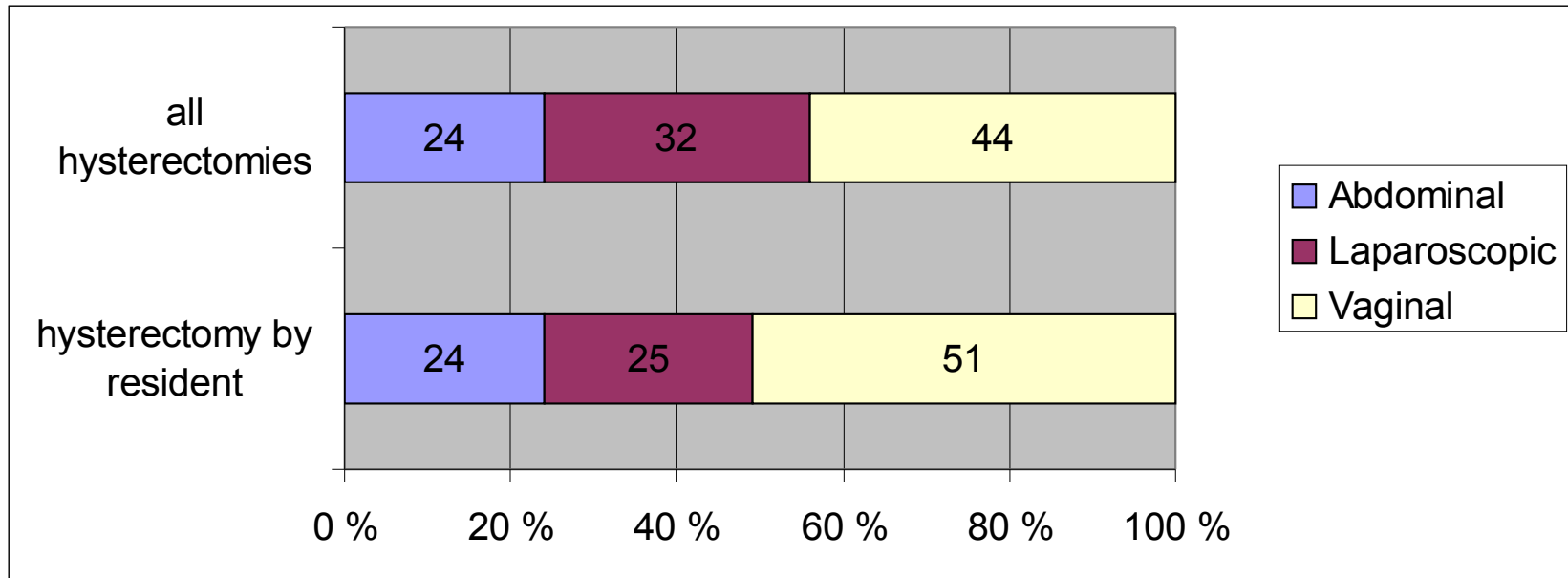
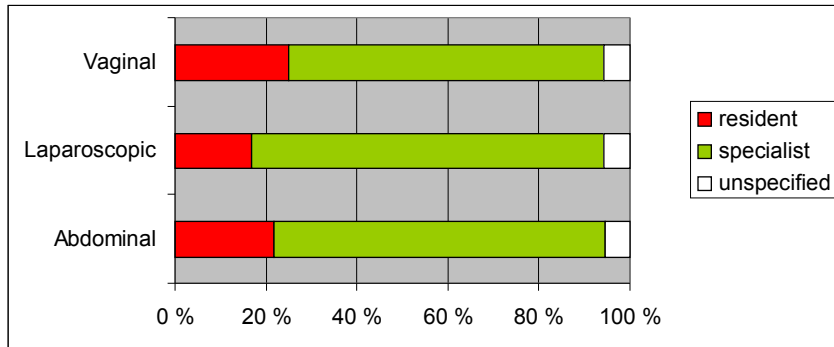
Conversions



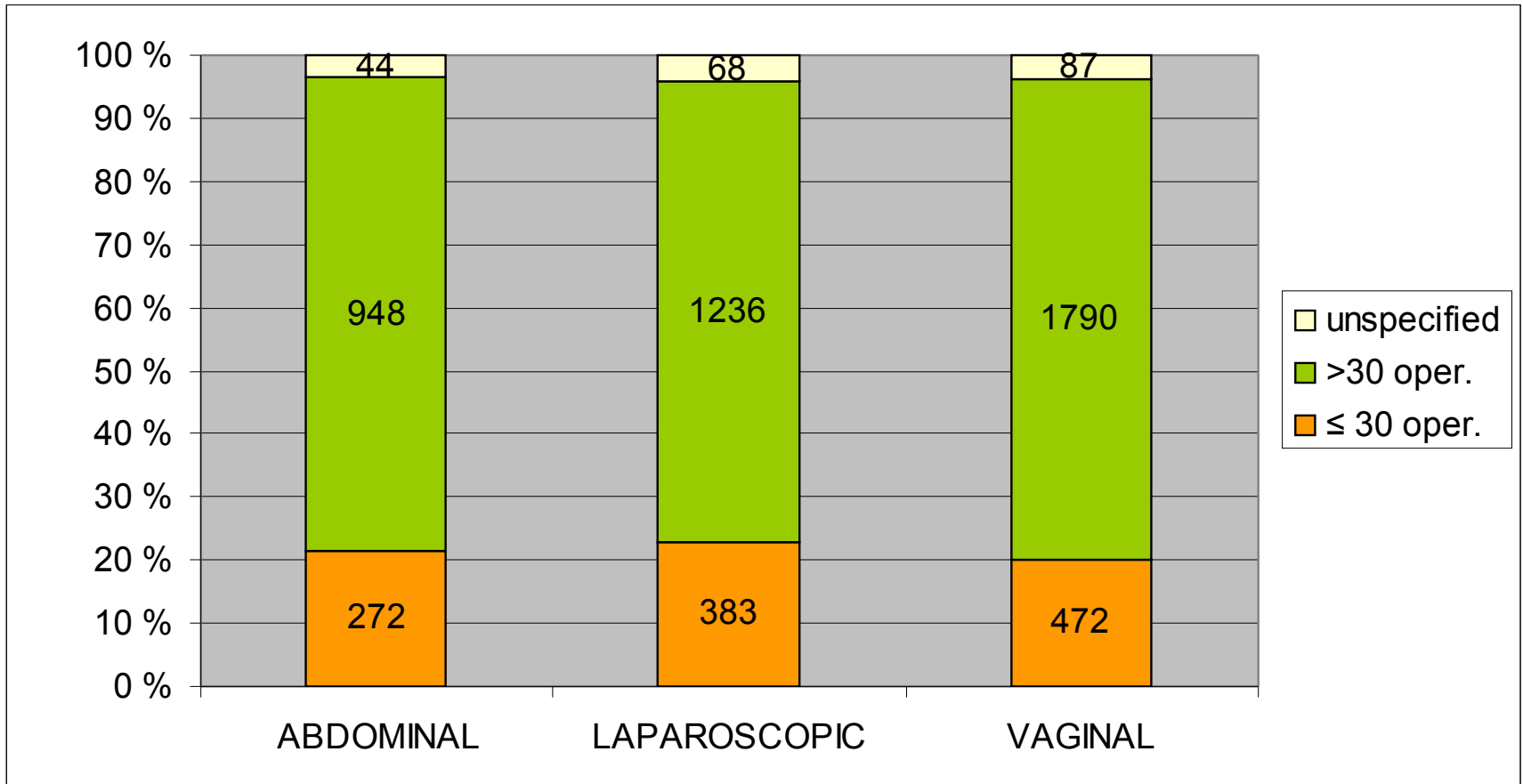
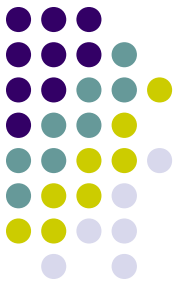
	N	Conversion rate %
From Laparoscopic	87	5,2%
From VH	12	0,5%



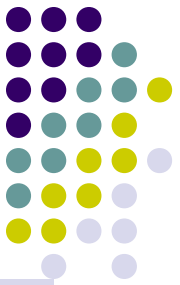
Role of the Residents



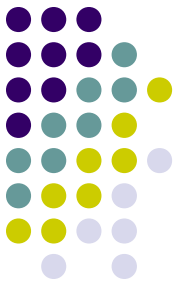
Experience of the Surgeons



Patients



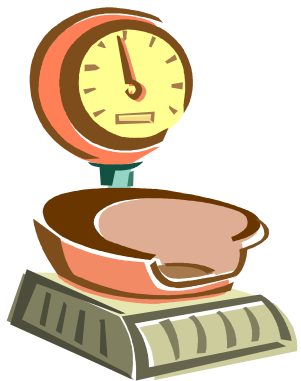
	Abdominal	Laparoscopic	Vaginal		
				Prolapse	≠Prolapse
BMI	27,2	26,1	26,5		
Age	50,2	49,3	55,0	60,2	47,0
Parity	1,55	1,81	2,45	2,57	2,26
Vaginal births	1,28	1,57	2,33	2,49	2,08
Cesarians	0,27	0,24	0,12	0,08	0,18
Returned questionnaire	75%	73%	75%	77%	74%
Pt satisfaction scale (1-100)	87,4	89,6	90,6	90,3	91,0

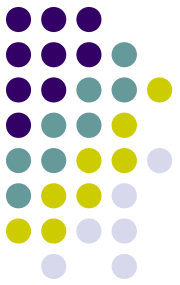


Uterine weight (g)

Finhyst year	Abdominal	Laparoscopic	Vaginal
2006	↑ 435	↑ 211	↑ 131
1996	290	195	109

Subgroup	Mean weight (g)	Standard dev.(± g)
TAH	441	432
SAH	356	339
LH	207	142
LAVH	204	134
Conversion	296	206
VH & prolapse	86	59
VH ≠ prolapse	197	130
Conversion	348	230





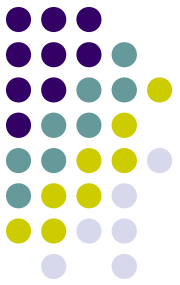
Hemorrhage (ml)

Finhyst year	Abdominal	Laparoscopic	Vaginal
2006	↑361	↑281	211
1996	305	262	342

Subgroup	Mean (ml)	Standard dev. (± ml)
TAH	360	353
SAH	381	457
LH	232	233
LAVH	315	298
Conversion	864	2678
VH & prolapse	188	200
VH ≠ prolapse	233	254
Conversion	1446	1873



Operation time (min)

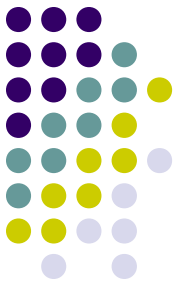


Finhyst year	Abdominal	Laparoscopic	Vaginal
2006	↑ 93	108	78
1996	86	124	88

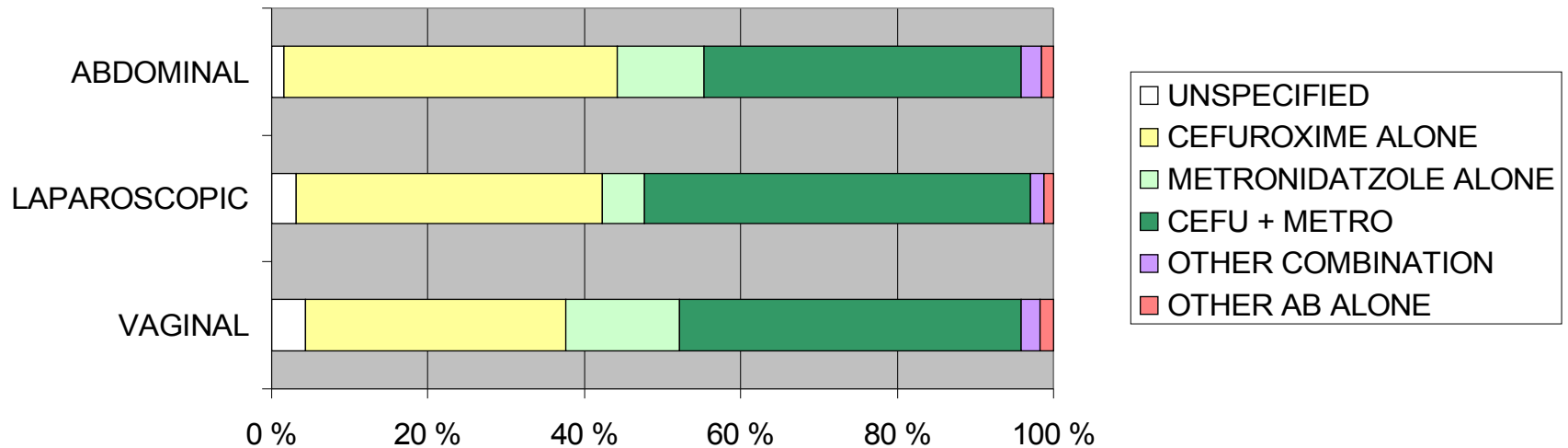
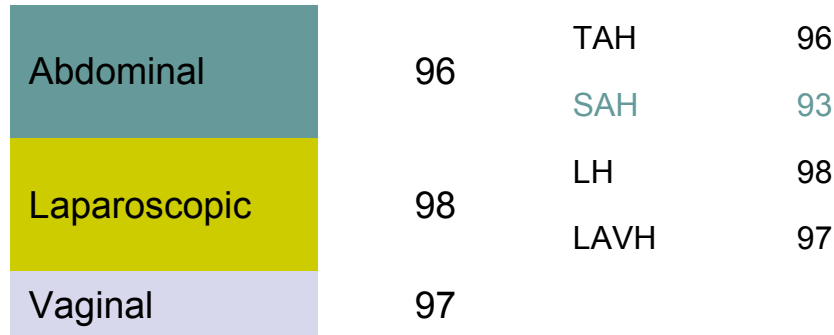
Subgroup	Mean Operation time (min)	Standard deviation (± min)
TAH	93	39
SAH	87	38
LH	103	41
LAVH	122	40
VH	77	33
VH all concomitant procedures excluded	66	30
VH with any concomitant procedure	85	33



Antibiotic prophylaxis



Usage (%)



Trombosis profylaxis



Patient age ≥ 60 \rightarrow profylaxis given to 79%

	Abdominal	Laparoscopic	Vaginal
Trombosis profylaxis (TP) given (%)	72%	60%	65%
Low molecular weight heparin (LMWH)	97%	97%	97%
Not specified	3%	3%	3%
Other (than LMWH) alone	0,1% _(n=1)	0%	0,1% _(n=2)
Treatment length was not specified	59%	60%	56%
Treatment length (mean N of days)	4,3	3,1	3,2
Post op hospital days if TP given	4,0	2,2	2,5
Post op hospital days ALL patients	3,9	2,0	2,3

Convalescence period



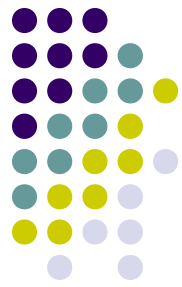
	Abdominal	Laparoscopic	Vaginal
Post op hospital days (mean)	3,9	2,0	2,3
Sick leave days (mean) doctors	32,2	22,0	29,4
Patients replied %	75%	73%	75%
Sick leave days (mean) patients	36,2	25,3	32,8
“I am working”%	65%	64%	54%
Workers: “My sick leave was inadequate” %	38,6%	38,2%	29,4%
Workers receiving extra days %	32,2%	30,9%	23,2%
Number of extra days (mean)	11,1	11,0	11,8
Number of visits to outpatient clinic (mean)	1,7	1,6	1,5
Patient “ My sick leave was too long” %	0,7%	1,2%	1,7%

Convalescence period in VH



	Vaginal all	Vaginal Other than prolapse as main indication	Vaginal Prolapse <i>and</i> concomitant surgery
Post op hospital days (mean)	2,3	1,8	2,7
Sick leave days (mean) doctors	29,4	25,0	35,0
Patients replied %	75%	74%	76%
Sick leave days (mean) patients	32,8	28,0	38,3
“I am working”%	54%	64%	46%
Workers: “My sick leave was inadequate” %	29,4%	32,9%	26,5%
Workers receiving extra days %	23,2%	25,4%	22,5%
N of extra days (mean)	11,8	11,9	11,9
N of visits to outpatient clinic (mean)	1,5	1,7	1,4
Patient “ My sick leave was too long” %	1,7%	2,4%	0,7%

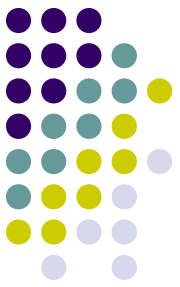
35% of hysterectomized workers have inadequate sick leave ?



- A clinician's view: patients might suffer more than we understand (?)
- Another clinician's view: *You are supposed to be ill during your leave : sick leave ≠ holiday*
- **Study Bias** : “**No Problems!**” might mean **absent answer** – 27% who had laparoscopic operation did not reply



When all complications reported by doctors were excluded



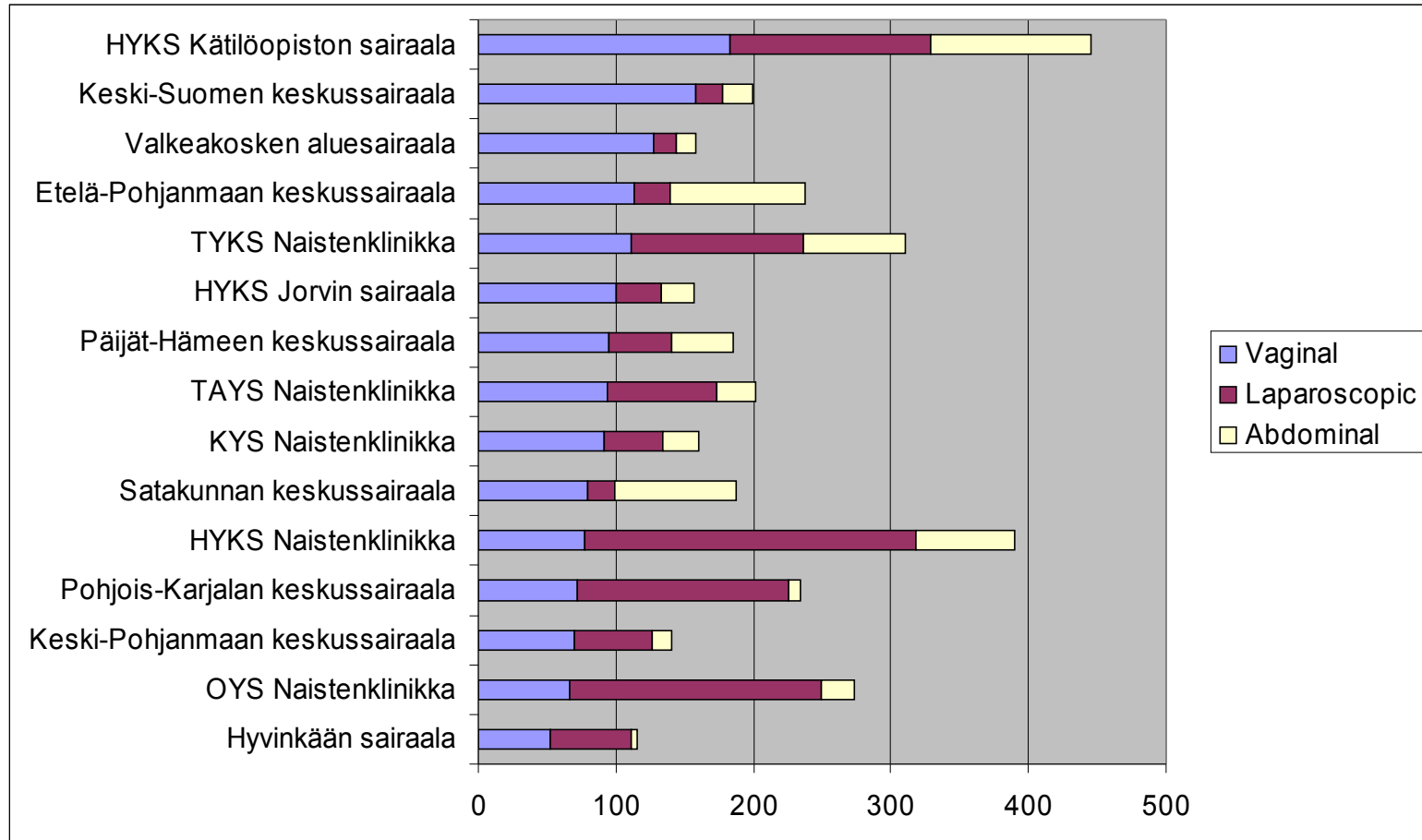
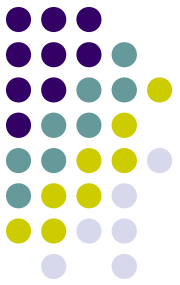
Hysterectomy	Sick leave by doctors	Reported sick leave by patients	Reported sick leave by patients who <i>also</i> reported it was <i>adequate</i>
TAH	32,0 sd 4,5	35,5 sd 8,9	32,6 sd 4,9
LH	20,1 sd 5,3	23,3 sd 7,8	21,7 sd 6,4
VH main indication other than prolapse	24,7 sd 5,8	27,1 sd 7,8	25,8 sd 6,4
VH main indication prolapse <i>and</i> concomittant surgery done	35,0 sd 6,8	38,0 sd 8,9	36,8 sd 7,2

Cochrane review 2006



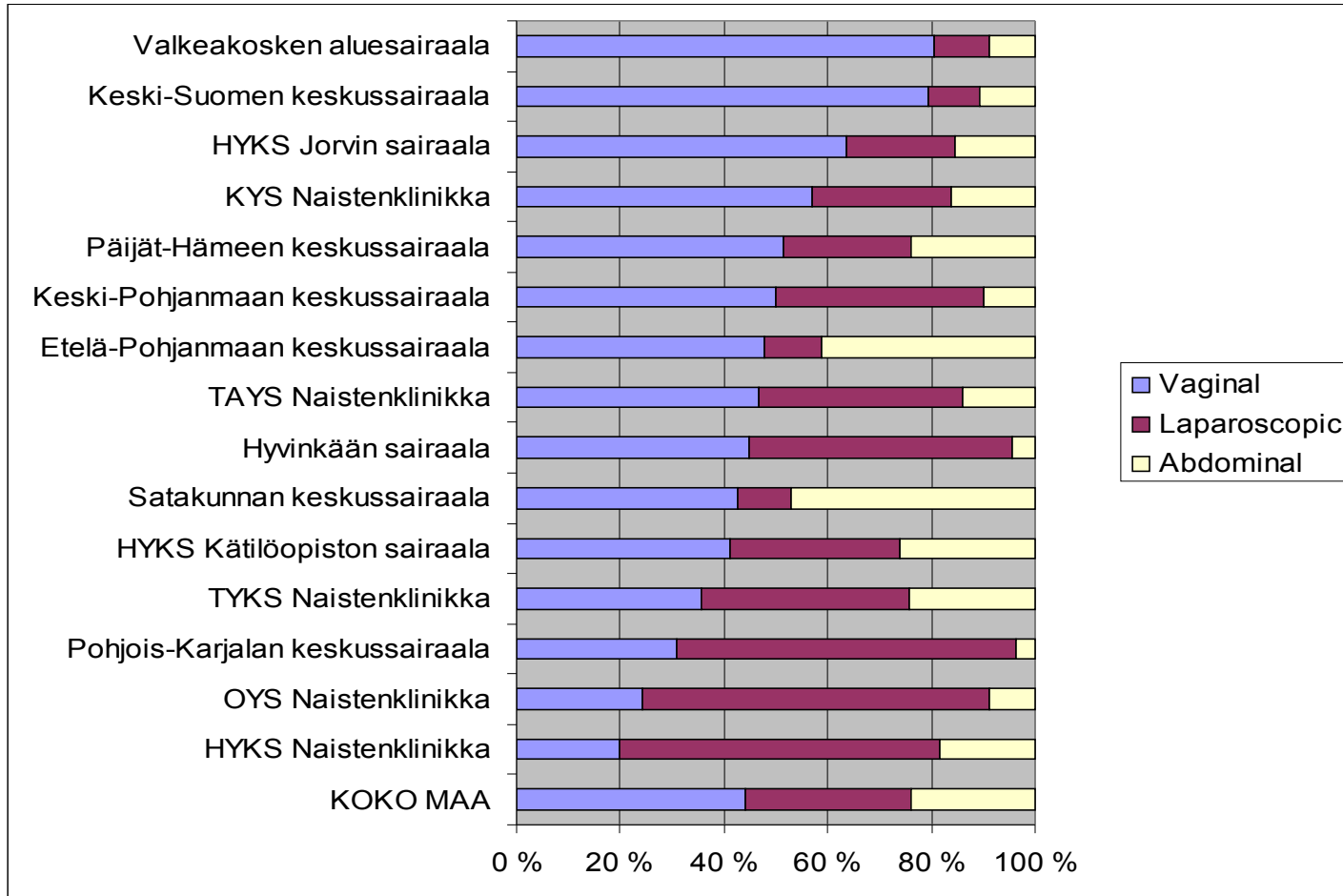
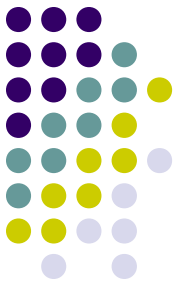
- Johnson et al: Surgical approach to hysterectomy for benign gynaecological disease
- Conclusions: “ VH should be performed in preference to AH where possible. Where VH is not possible, LH may avoid the need for AH ”

A. Vaginal hysterectomy popular N



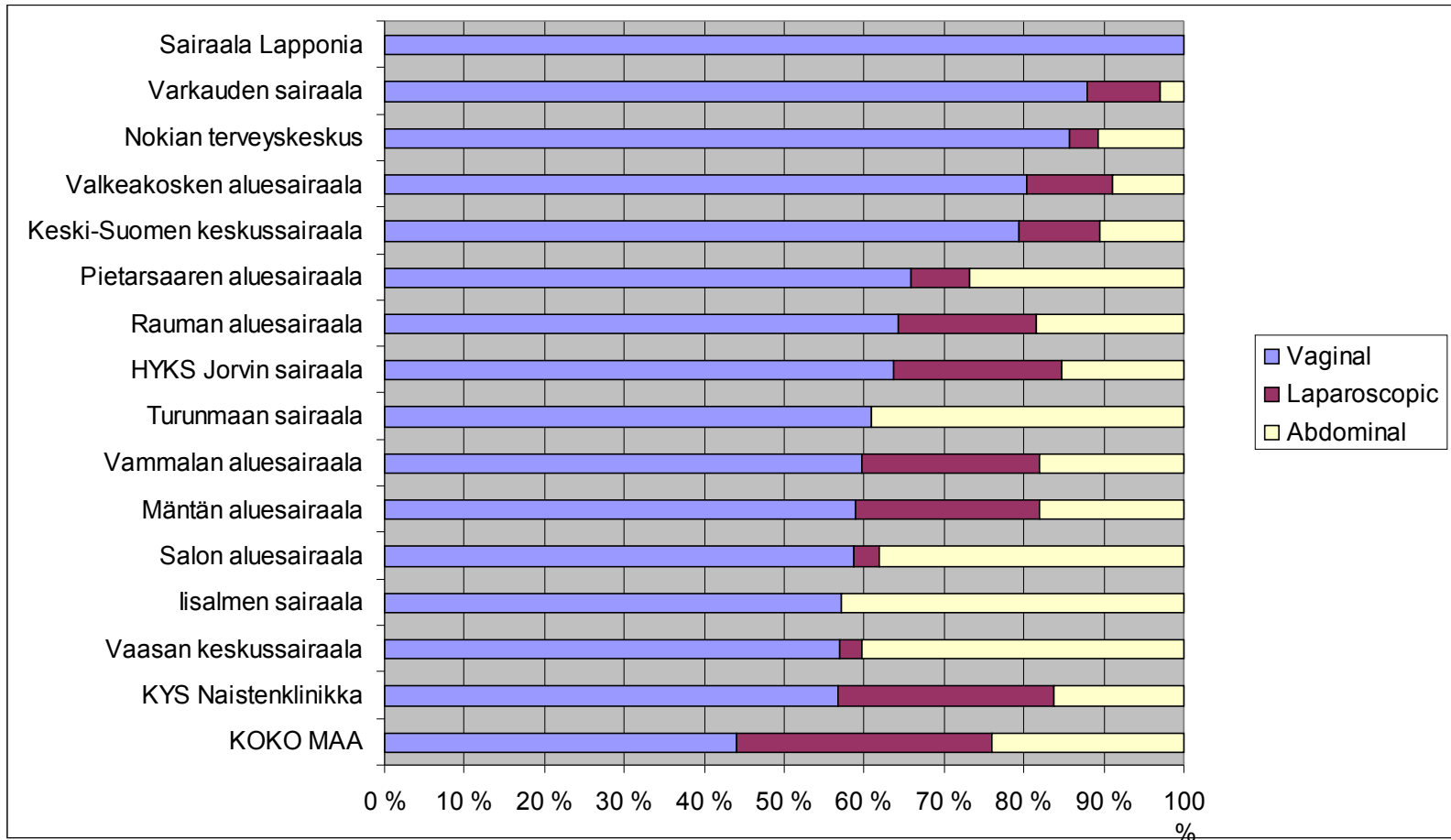
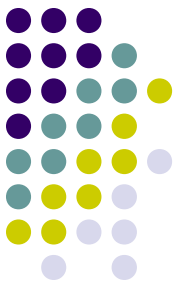
Sairaalat, joissa määrällisesti (n) eniten vaginaalista hysterektomiaa

A. Vaginal hysterectomy Popular (%)



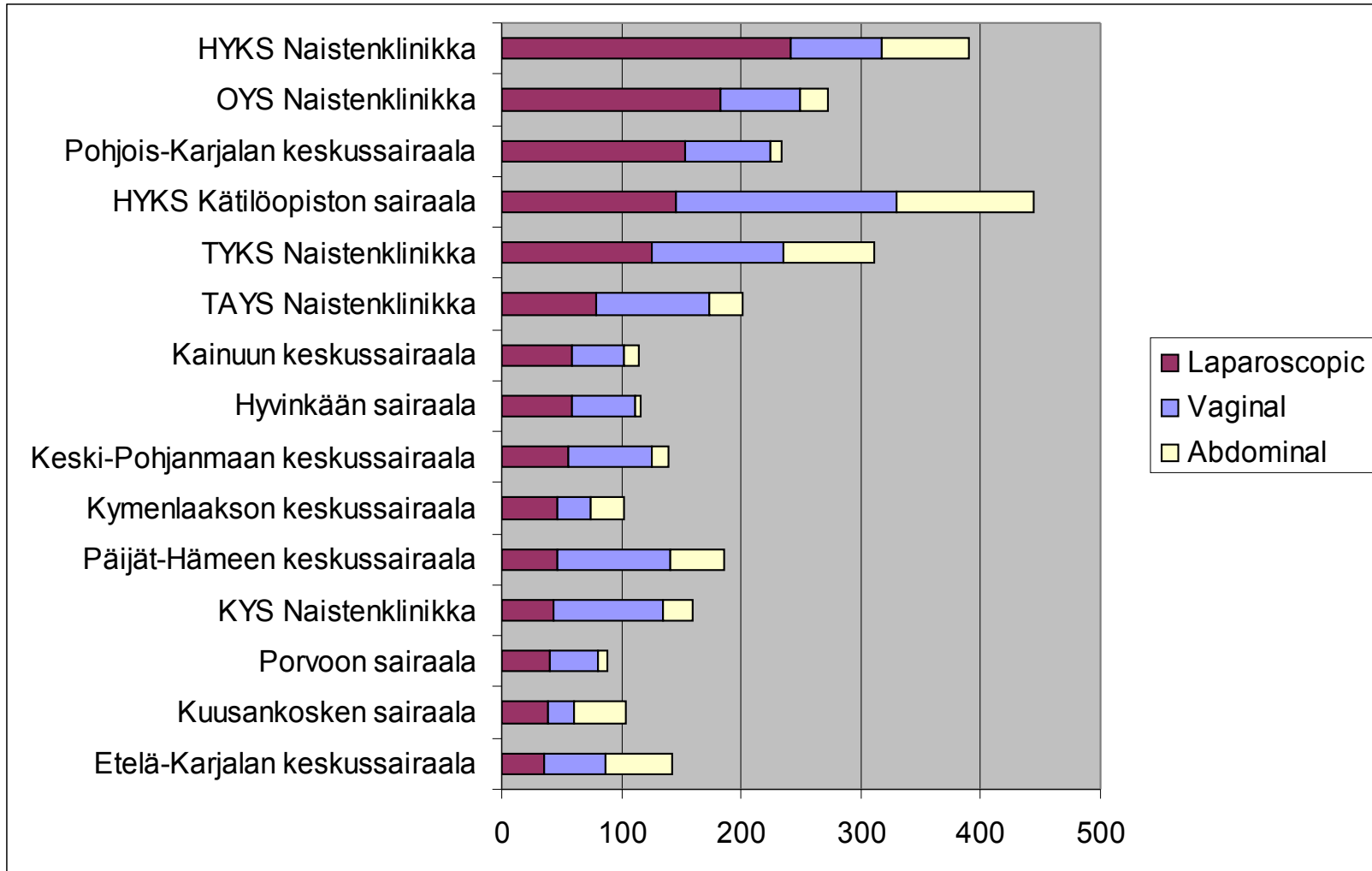
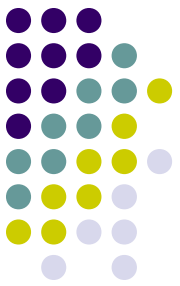
Osuudet (%) niistä sairaaloista, joissa määrällisesti (n) eniten vaginaalista hysterektomiaa

B. Vaginal hysterectomy popular (%)



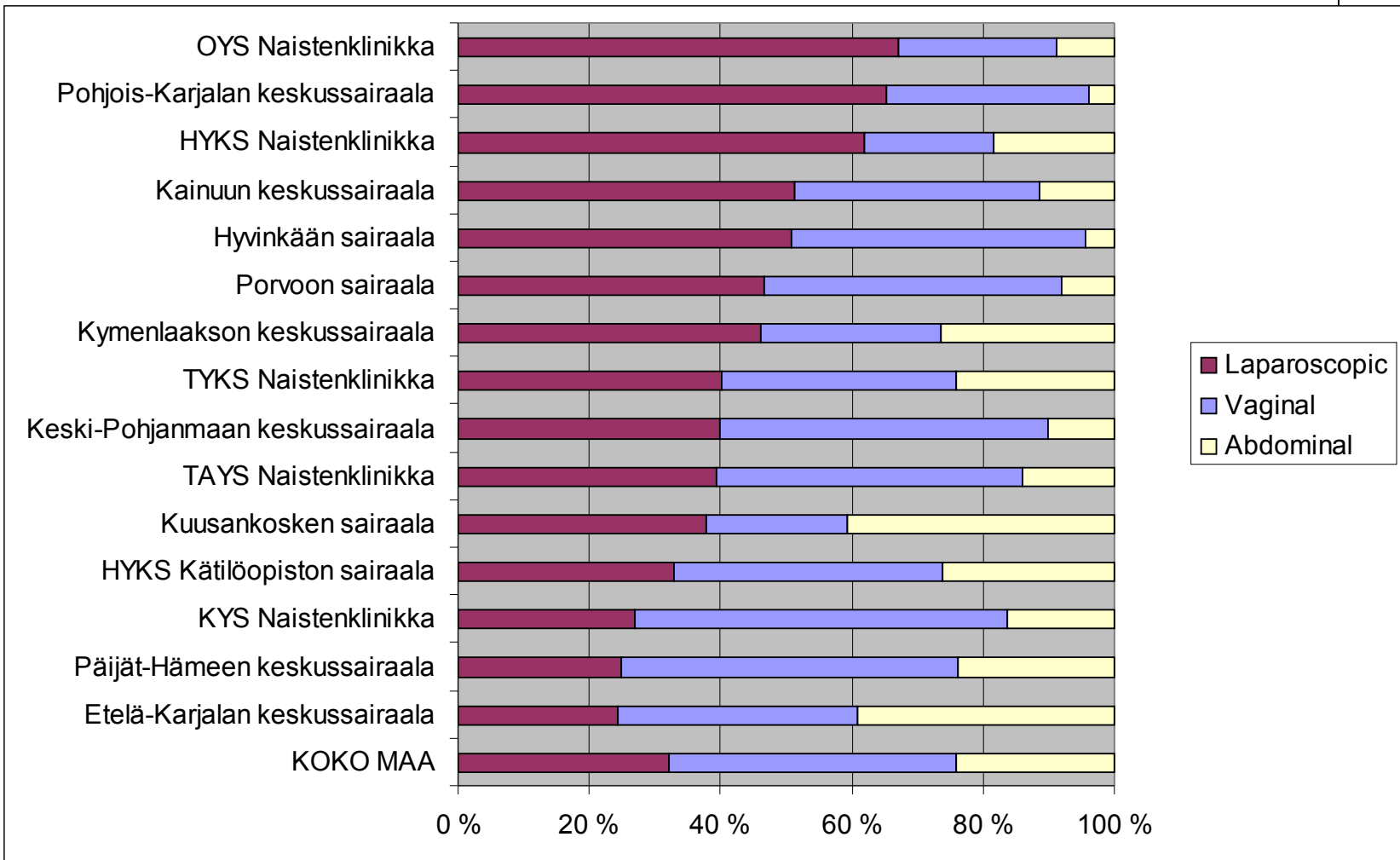
Sairaalat, joissa suurin osuus (%) vaginaalista hysterektomiaa, koko maa

A. Laparoscopic hysterectomy popular N



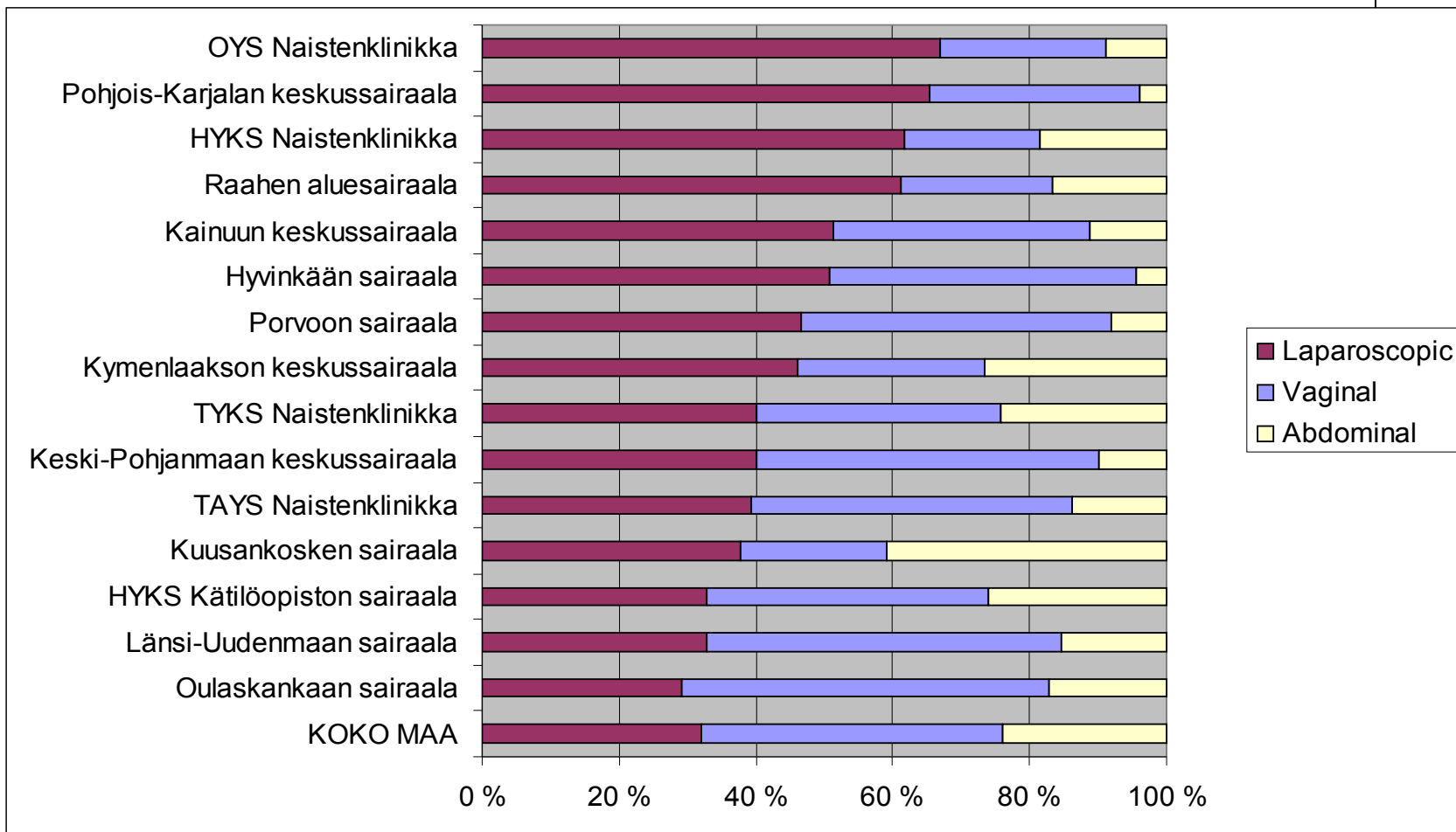
Sairaalat, joissa määrällisesti (n) tehtiin eniten laparoskooppista hysterektomiaa

A. Laparoscopic hysterectomy popular %



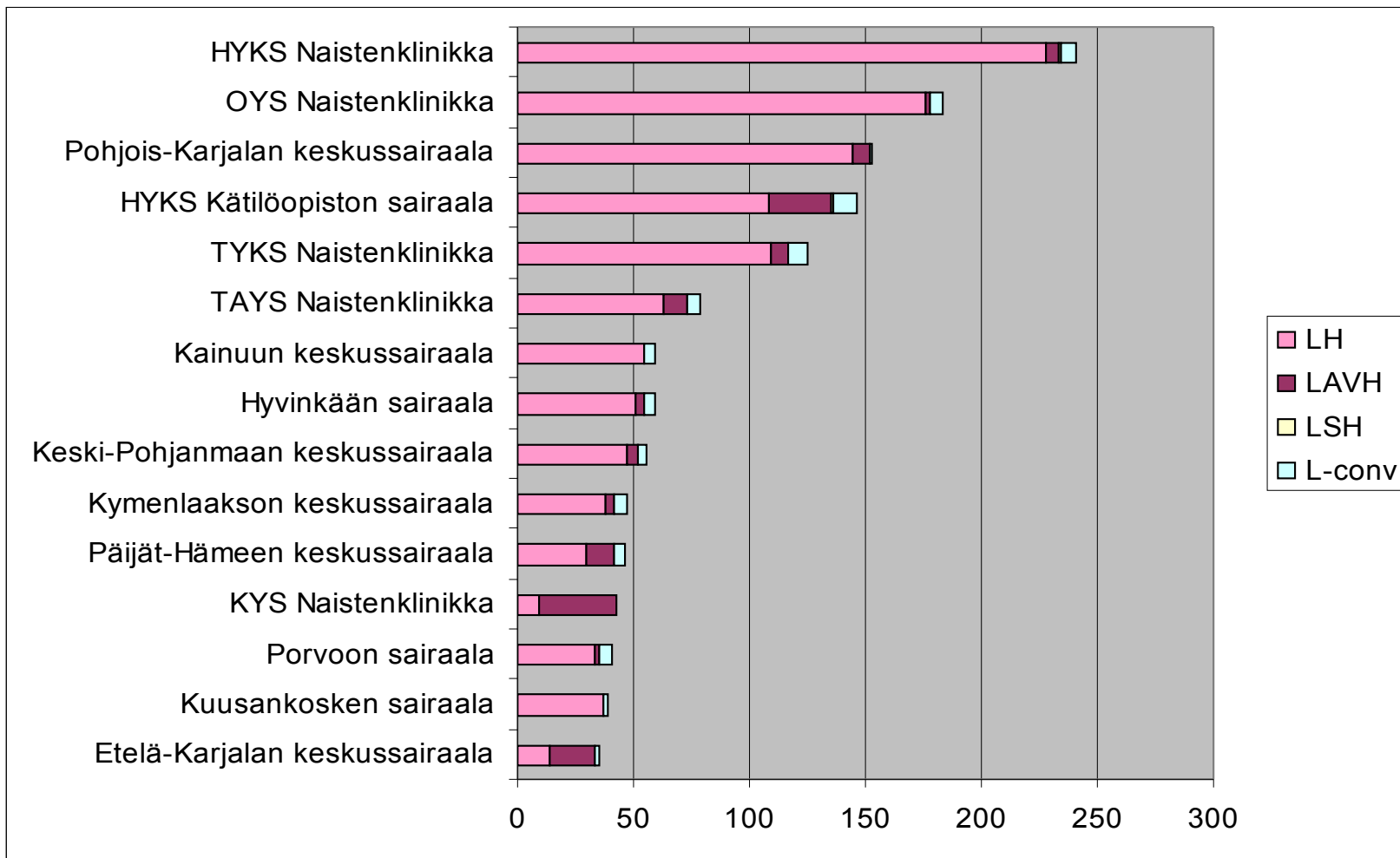
Osuudet (%) niissä sairaaloissa, joissa määrällisesti (n) eniten laparoskooppista hysterektomiaa

B. Laparoscopic hysterectomy popular %



Sairaalat, joissa suurin osuus (%) laparoskooppista hysterektomiaa, koko maa

LH / LAVH / LSH / conversion



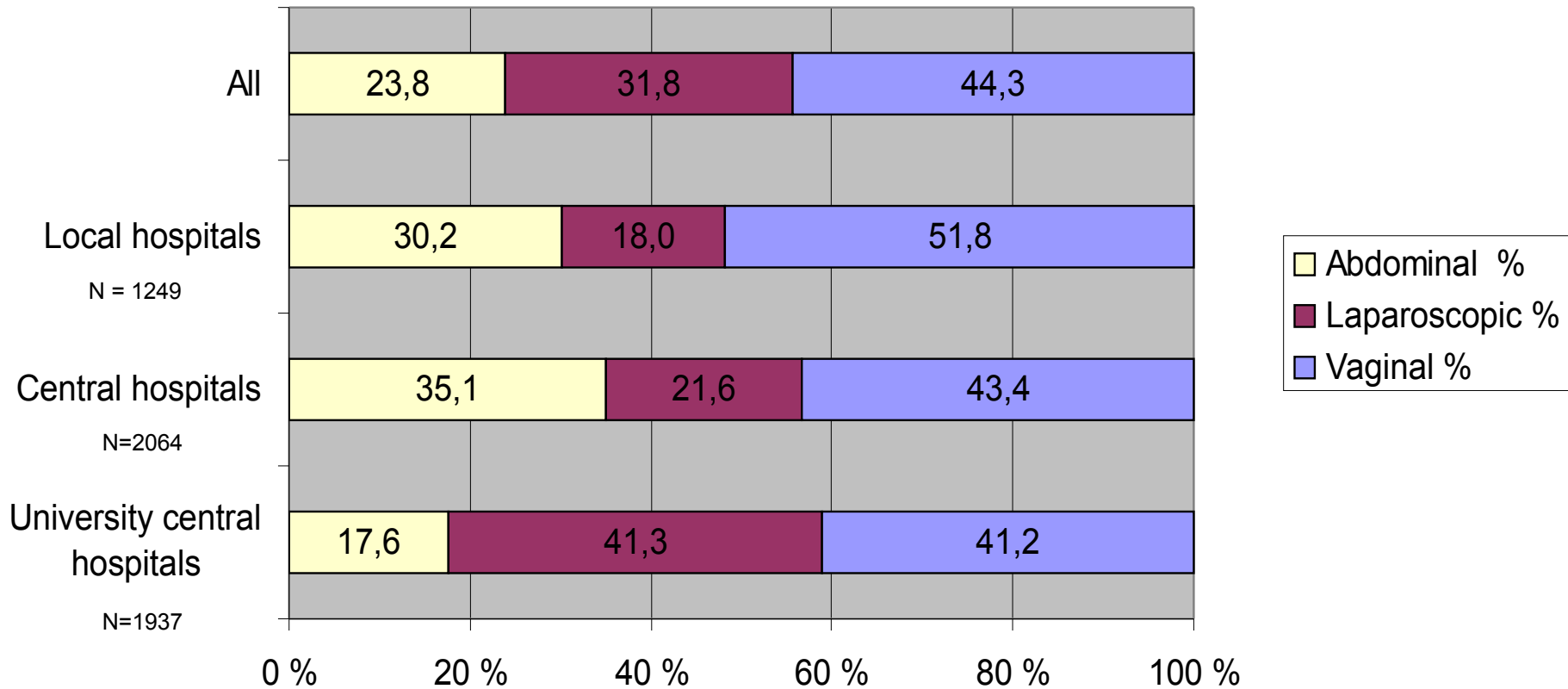
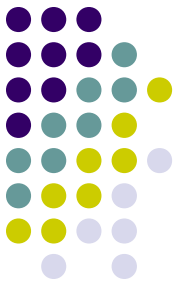
Sairaalat, joissa määrällisesti (n) eniten laparoskooppista hysterektomiaa

University Central Hospitals

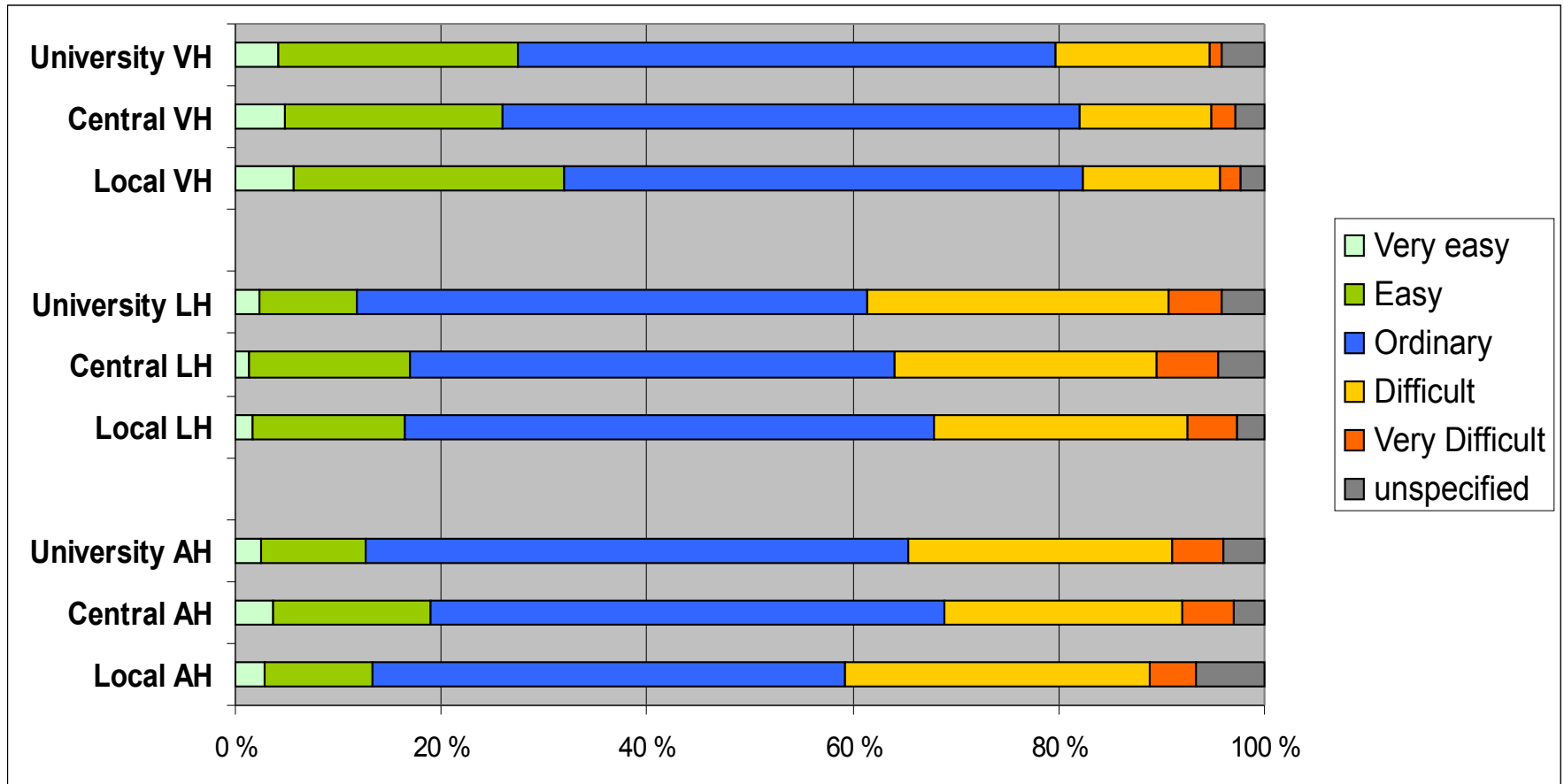
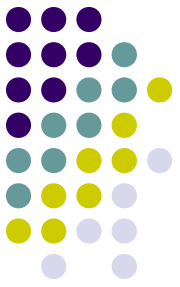


	N	Abdominal %	Laparoscopic %	Vaginal %
HYKS Kätilöopiston sairaala	445	26,1	32,8	41,1
HYKS Naistenklinikka	390	18,5	61,8	19,7
TYKS Naistenklinikka	311	24,1	40,2	35,7
OYS Naistenklinikka	273	8,8	67,0	24,2
TAYS Naistenklinikka	201	13,9	39,3	46,8
KYS Naistenklinikka	160	16,2	26,9	56,9
HYKS Jorvin sairaala	157	15,3	21,0	63,7

Approach by hospital type

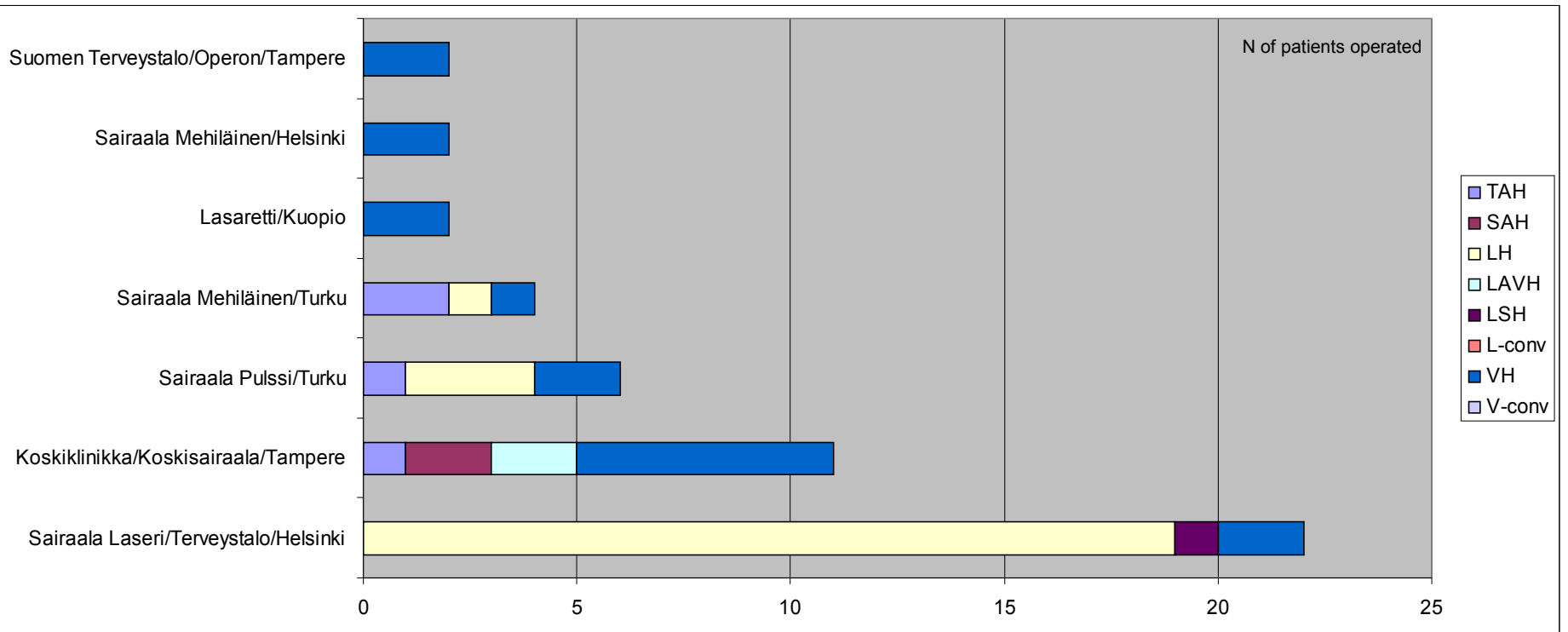
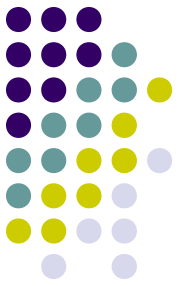


Individual surgeon's rating of difficulty by approach and hospital type

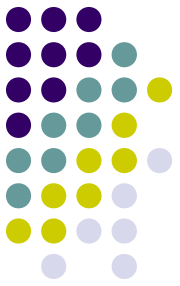


Approach in private hospitals

(n=49)



Central Hospitals



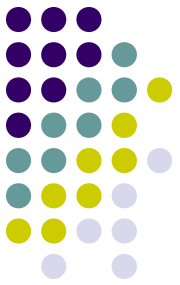
	N	Abdominal %	Laparoscopic %	Vaginal %
Etelä-Pohjanmaan keskussairaala	237	41,3	11,0	47,7
Pohjois-Karjalan keskussairaala	234	3,8	65,4	30,8
Keski-Suomen keskussairaala	199	10,5	10,1	79,4
Satakunnan keskussairaala	187	47,0	10,2	42,8
Päijät-Hämeen keskussairaala	185	23,7	24,9	51,4
Etelä-Karjalan keskussairaala	143	39,1	24,5	36,4
Keski-Pohjanmaan keskussairaala	140	10,0	40,0	50,0
Kainuun keskussairaala	115	11,3	51,3	37,4
Kymenlaakson keskussairaala	102	26,4	46,1	27,5
Kanta-Hämeen keskussairaala	99	21,2	27,3	51,5
Savonlinnan keskussairaala	89	43,8	13,5	42,7
Länsi-Pohjan keskussairaala	81	45,7	6,2	48,1
Lapin keskussairaala	79	54,4	7,6	38,0
Vaasan keskussairaala	72	40,3	2,8	56,9
Mikkelin keskussairaala	68	54,4	4,4	41,2
Ålands centralsjukhus	34	88,2	0,0	11,8

Local Hospitals

	N	Abdominal %	Laparoscopic %	Vaginal %
Valkeakosken aluesairaala	158	8,8	10,8	80,4
Hyvinkään sairaala	116	4,3	50,9	44,8
Kuusankosken sairaala	103	40,7	37,9	21,4
Porvoon sairaala	88	7,9	46,6	45,5
Lohjan sairaala	86	40,7	19,8	39,5
Rauman aluesairaala	81	18,5	17,3	64,2
Vammalan aluesairaala	72	18,1	22,2	59,7
Salon aluesairaala	63	38,1	3,2	58,7
Mäntän aluesairaala	61	18,0	23,0	59,0
Forssan sairaala	60	36,7	15,0	48,3
Länsi-Uudenmaan sairaala	52	15,4	32,7	51,9
Loimaan aluesairaala	42	40,5	23,8	35,7
Pietarsaaren aluesairaala	41	26,8	7,3	65,9
Oulaskankaan sairaala	41	17,0	29,3	53,7
Raahen aluesairaala	36	16,7	61,1	22,2
Iisalmen sairaala	35	42,9	0,0	57,1
Varkauden sairaala	33	3,0	9,1	87,9
Nokian terveystakeskus	28	10,7	3,6	85,7
Turunmaan sairaala	23	39,1	0,0	60,9
Vakka-Suomen sairaala	14	85,7	0,0	14,3
Pieksämäen sairaala	7	85,7	0,0	14,3
Heinolan sairaala	5	80,0	0,0	20,0
Sairaala Lapponia	4	0,0	0,0	100,0

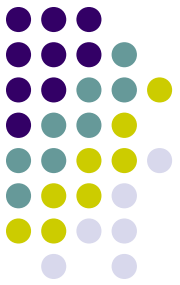


Intraoperative complications



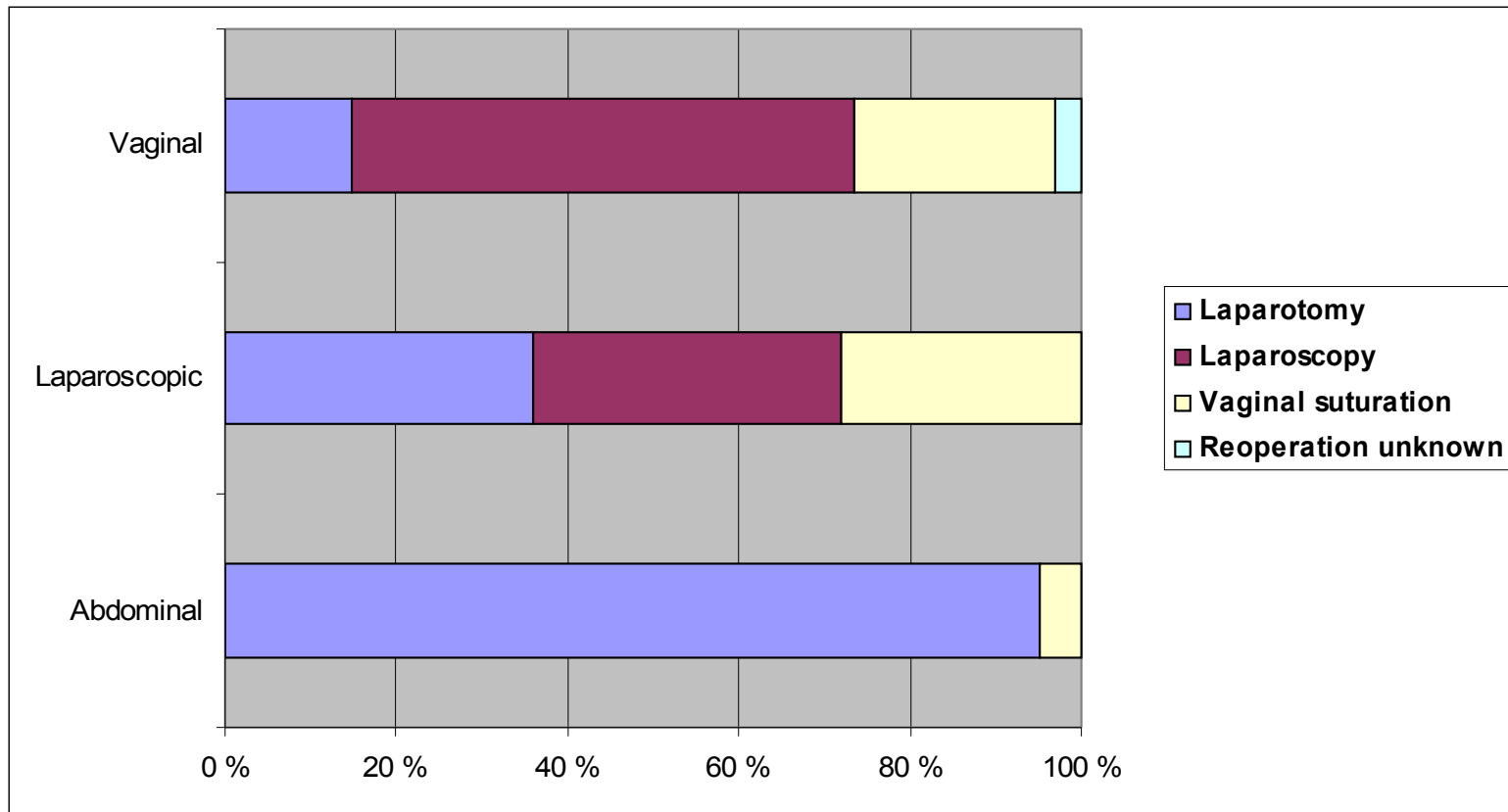
	Abdominal	Laparoscopic	Vaginal
Hemorrhage \geq 1000ml	5,8%	3,0%	1,6%
Vascular injury major	-	0,06% (n=1 iliac)	-
Vascular injury epigastric	-	0,24%	-
Vascular injury minor	0,08%	0,24%	0,17%
Other minor complications	0,16%	0,06%	0,26%

Postoperative MAJOR complications detected at hospital ward

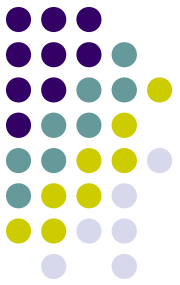


	Abdominal		Laparoscopic		Vaginal	
Hemorrhage Operative treatment	21	1,66%	25	1,48%	34	1,45%
Bladder injury	-		2	0,12%	1	0,04%
Ureter injury	2	0,16%	-	0%	-	0%
Bowel injury	-		2	0,12%	-	0%
Reoperation, return to theater – other cause	4	0,32%	2	0,12%	-	0%
Pulm. embolism	1	0,08%	-	0%	1	0,04%
Death	-	0%	-	0%	-	0%

Hemorrhage detected post op: By which approach it was treated?

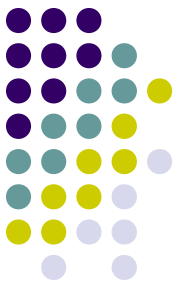


Reoperation, other cause than organ injury or hemorrhage



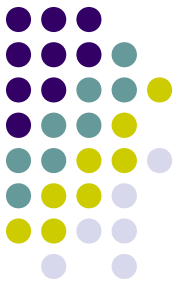
	Abdominal	Laparoscopic	Vaginal
Ruptured wound	3	1	-
Drainage release	1	-	-
Hemorrhage suspected	-	1	-

Postoperative MAJOR complications, late detected at readmittance to hospital



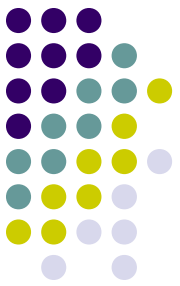
	Abdominal		Laparoscopic		Vaginal	
Pelvic hematoma/ abcess Oper. Treatment	4	0,32%	8	0,47%	3	0,13%
Bladder injury	2	0,16%	1	0,06%	-	0%
Ureter injury	1	0,08%	5	0,30%	-	0%
Bowel injury	-	0%	-	0%	-	0%
Reoperation, return to theater – other cause	2	0,16%	7	0,41%	1	0,04%
Pulm. embolism	-	0%	-	0%	-	0%
Death	-	0%	-	0%	-	0%

Reoperation – other cause than organ injury or hematoma/abcess



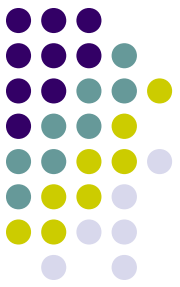
	Abdominal	Laparoscopic	Vaginal
Wound revision	1	-	-
Vaginal suturation	-	7	1
Retained sponge	1	-	-

Postoperative MAJOR complications, detected **at hospital ward and late**

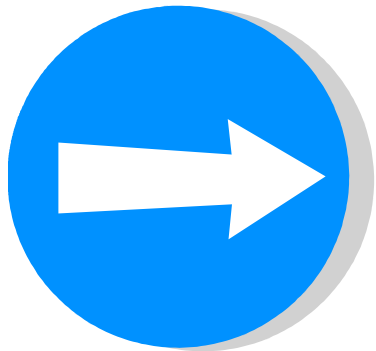


	Abdominal		Laparoscopic		Vaginal	
Hemorrhage Operative treatment	21	1,66%	25	1,48%	34	1,45%
Pelvic hematoma/ abcess Oper. Treatment	4	0,32%	8	0,47%	3	0,13%
Reoperation , return to theater – other cause	6	0,47%	9	0,53%	1	0,04%
Pulm. embolism	1	0,08%	-	0%	1	0,04%
Death	-	0%	-	0%	-	0%

Organ injuries – All intra/postoperatively detected

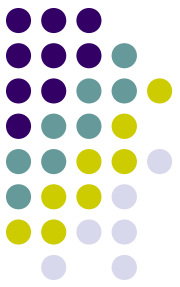


INTRA (n)				POSTOP (n)			
	Abdomi nal	Laparo scopic	Vaginal		Abdomi nal	Laparo scopic	Vaginal
Bladder	9	14	13	Bladder	2	3	0
Ureter	1	0	0	Ureter	3	5	1
Bowel	3	5	2	Bowel	0	2	0



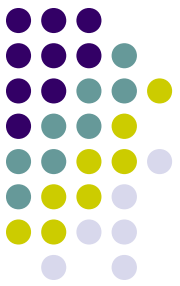
ALL %	Abdominal	Laparoscopic	Vaginal
Bladder	0,87%	<u>1,01%</u>	0,55%
Ureter	<u>0,32%</u>	0,30%	0,04%
Bowel	0,24%	<u>0,41%</u>	0,09%

Incidence of organ injuries has mostly decreased in ten years



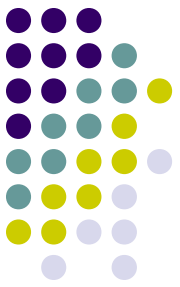
ALL %	Abdominal		Laparoscopic		Vaginal	
	2006	1996	2006	1996	2006	1996
Year	2006	1996	2006	1996	2006	1996
Bladder	↑ 0,87%	0,5%	<u>1,01%</u>	<u>1,3%</u>	↑ 0,55%	0,2%
Ureter	↑ <u>0,32%</u>	0,2%	0,30%	<u>1,1%</u>	↑ 0,04%	0%
Bowel	↑ 0,24%	0,2%	<u>0,41%</u>	0,4%	0,09%	<u>0,5%</u>
Total	↑ 1,48%	0,8%	1,72%	2,8%	0,68%	0,7%

Postoperative MINOR complications detected at hospital ward



	Abdominal	Laparoscopic	Vaginal
Hemorrhage	1,0%	1,2%	1,3%
Wound infection	<u>1,3%</u>	0,4%	0,3%
Urinary infection	<u>1,8%</u>	0,4%	1,2%
Fever for unknown cause	<u>2,3%</u>	0,8%	0,7%
Venous Trombosis	0%	0%	0%
Ileus	0,8%	0,1%	0,1%
Other	1,7%	0,8%	2,0%

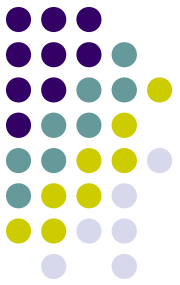
Postoperative MINOR complications detected after discharge and/or during readmittance to hospital



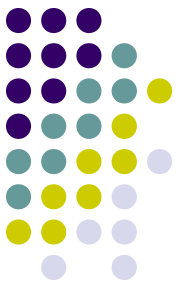
	Abdominal	Laparoscopic	Vaginal
Pelvic infection: hematoma/abcess	0,5%	<u>2,9%</u>	<u>2,0%</u>
Wound infection	1,0%	1,2%	0,6%
Urinary infection	0,3%	0,2%	0,3%
Fever for unknown cause	0,3%	0,5%	0,2%
Venous trombosis	0%	0%	0%
Ileus	0,2%	0,2%	0%
Other	0,3%	0,9%	0,3%

Postoperative MINOR complications

ALL

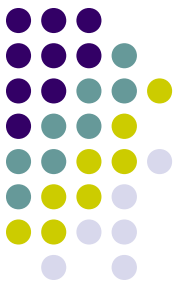


	Abdominal	Laparoscopic	Vaginal
Hemorrhage	1,0%	1,2%	1,3%
Pelvic infection: hematoma/abcess	0,5%	<u>2,9%</u>	<u>2,0%</u>
Wound infection	<u>2,2%</u>	1,5%	0,9%
Urinary infection	<u>2,1%</u>	0,7%	1,5%
Fever for unknown cause	<u>2,6%</u>	1,4%	0,9%
Venous trombosis	0%	0%	0%
Ileus	1,0%	0,3%	0,1%
Other	2,1%	1,7%	2,3%



Complications TOTAL

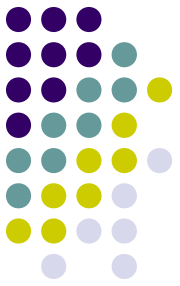
Complications	Abdominal	Laparoscopic	Vaginal
Major	4,0%	4,3%	2,3%
Minor	15,3%	12,6%	9,7%
All	<u>19,3%</u> ↑	16,7%	12,1%
All in 1996	17,2%	19,0%	<u>23,3%</u>



Less infections in all groups

	Abdominal		Laparoscopic		Vaginal	
Finhyst Year	1996	2006	1996	2006	1996	2006
Infections all	10,5%	7,8%	13,0%	6,9%	9,0%	5,5%
Antibiotic profylaxis	79%	96%	80%	98%	92%	97%

A Conclusion of Complications

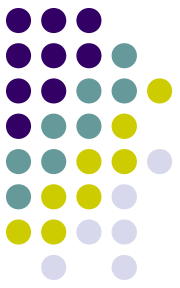


- 88% of bladder and 83% of bowel injuries were detected during the primary operation
- Ureter injuries predominant in AH
- Bladder and bowel injuries predominant in LH
- Incidence of total complications highest in AH
- Incidence of total, major and minor complications and in detail also organ injuries and infection complications lowest in VH

A decade of 1996 - 2006:

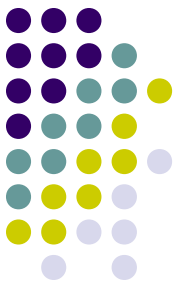
- Incidence of total complications and organ injuries decreased in LH and VH
- Particularly: Ureter injuries in LH decreased from 1,1% (n=27) to 0,3% (n=5)
- Incidence of organ and total complications increased in AH ; simultaneously as the proportion of AH decreased from 58% to 24%

Concomittant salpingo-ooforectomy to **possibly** postmenopausal women



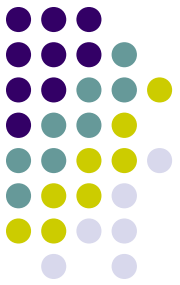
	Age \geq 50 years AND Indication \neq adnexal tumor (n)	→ Concomittant BSO / USO Performed (n)	→ Concomittant BSO / USO performed (%)
VH	1402	61	4,4%
LH / LAVH	543	361	66,5%
TAH / SAH	467	315	67,5%

Concomittant salpingo-ooforectomy to postmenopausal women



	Age \geq 60 years AND Indication \neq adnexal tumor (n)	→ Concomittant BSO / USO Performed (n)	→ Concomittant BSO / USO performed (%)
VH	744	30	4,0%
LH / LAVH	133	114	85,7%
TAH / SAH	98	86	87,8%

Concomitant procedures VH and indication prolapse (N=1432)



	n	%
None	178	12,4%
Colporraphy, any	1161	81,1%
Colporraphy posterior only	117 (10%)	
Colporraphy anterior only	441 (38%)	
Colporraphy anterior and posterior	603 (52%)	
Enterocele repair and any colporraphy	65	
Enterocele repair alone	14	1,0%

	n	%
Incontinence any	35	2,4%
TVT	3	
TOT	6	
Kelly	22	
TVT-O	3	
Other	1	
MESH	31	2,2%
Sacrospinous fixation	34	2,4%

Instrumentation



Newer coagulation methods →

Ligasure™
usage

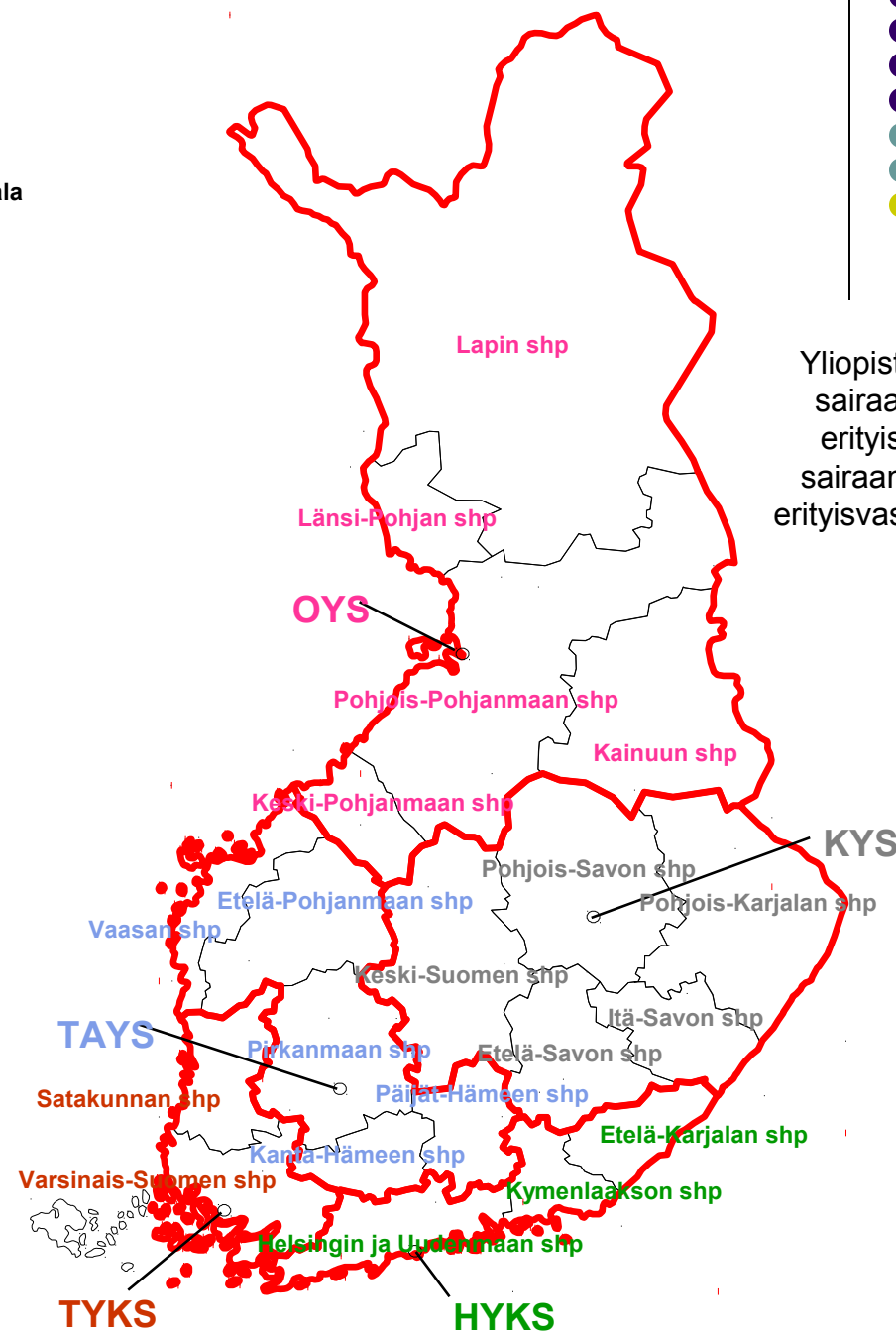
Ultrasonic
scalpel usage

Abdominal	5,5%	1,4%
Laparoscopic	3,7%	34,6%
Vaginal	7,3%	

Reported problems with Instrumentation	-	1,5%	0,2%
----------------------------------------	---	------	------



Yliopistollisten sairaaloiden erityistason sairaanhoidon erityisvastuualueet



OYS-eva

- OYS Naistenklinikka
- Kainuun keskussairaala
- Keski-Pohjanmaan keskussairaala
- Lapin keskussairaala
- Länsi-Pohjan keskussairaala
- Oulaskankaan sairaala
- Raahen aluesairaala
- Sairaala Lapponia

TAYS-eva

- TAYS Naistenklinikka
- Etelä-Pohjanmaan keskussairaala
- Forssan sairaala
- Heinolan sairaala
- Kanta-Hämeen keskussairaala
- Mäntän aluesairaala
- Nokian terveyskeskus
- Pietarsaaren aluesairaala
- Päijät-Hämeen keskussairaala
- Vaasan keskussairaala
- Valkeakosken aluesairaala
- Vammalan aluesairaala

KYS-eva

- KYS Naistenklinikka
- Iisalmen sairaala
- Keski-Suomen keskussairaala
- Mikkelin keskussairaala
- Pieksämäen sairaala
- Pohjois-Karjalan keskussairaala
- Savonlinnan keskussairaala
- Varkauden sairaala

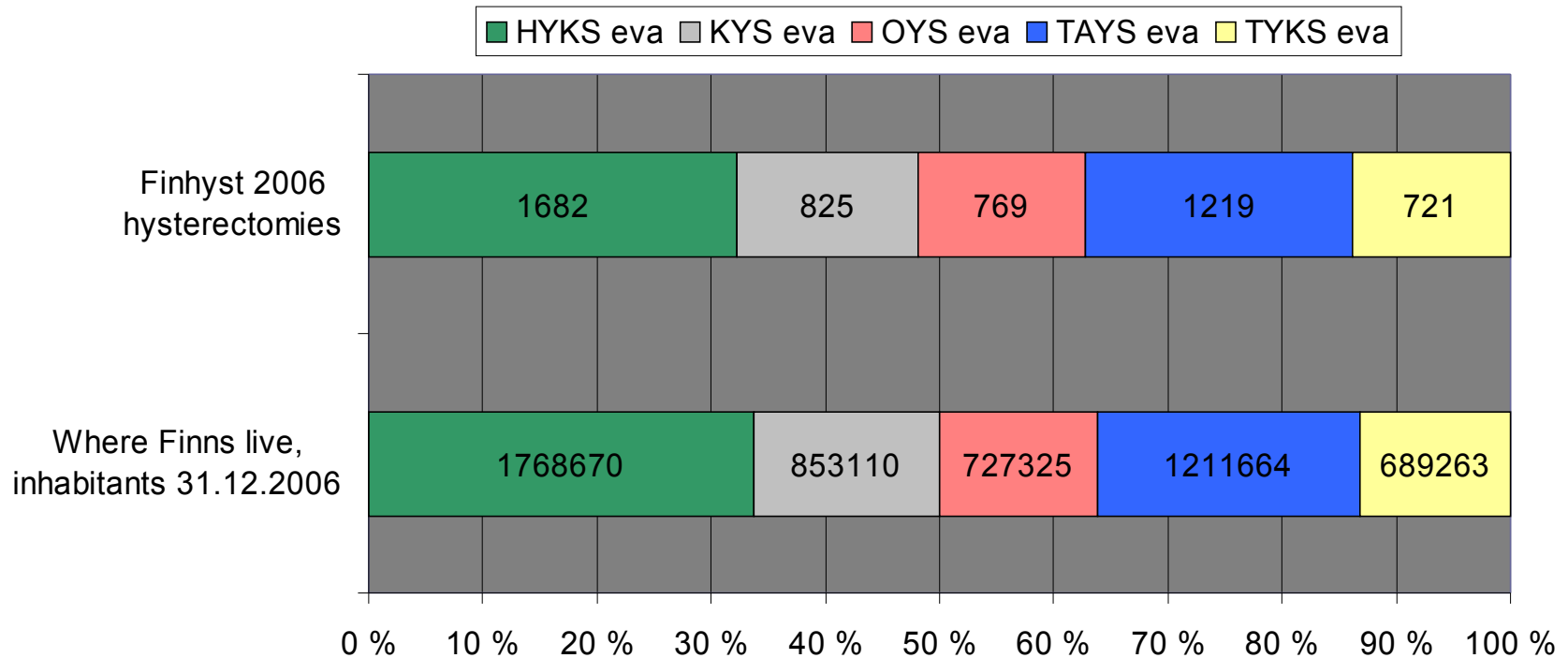
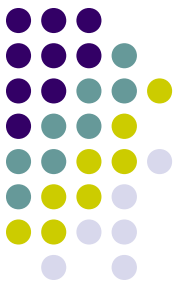
HYKS-eva

- HYKS Naistenklinikka
- Etelä-Karjalan keskussairaala
- Hyvinkään sairaala
- HYKS Jorvin sairaala
- Kuusankosken sairaala
- Kymenlaakson keskussairaala
- HYKS Kätilöopiston sairaala
- Lohjan sairaala
- Länsi-Uudenmaan sairaala
- Porvoon sairaala

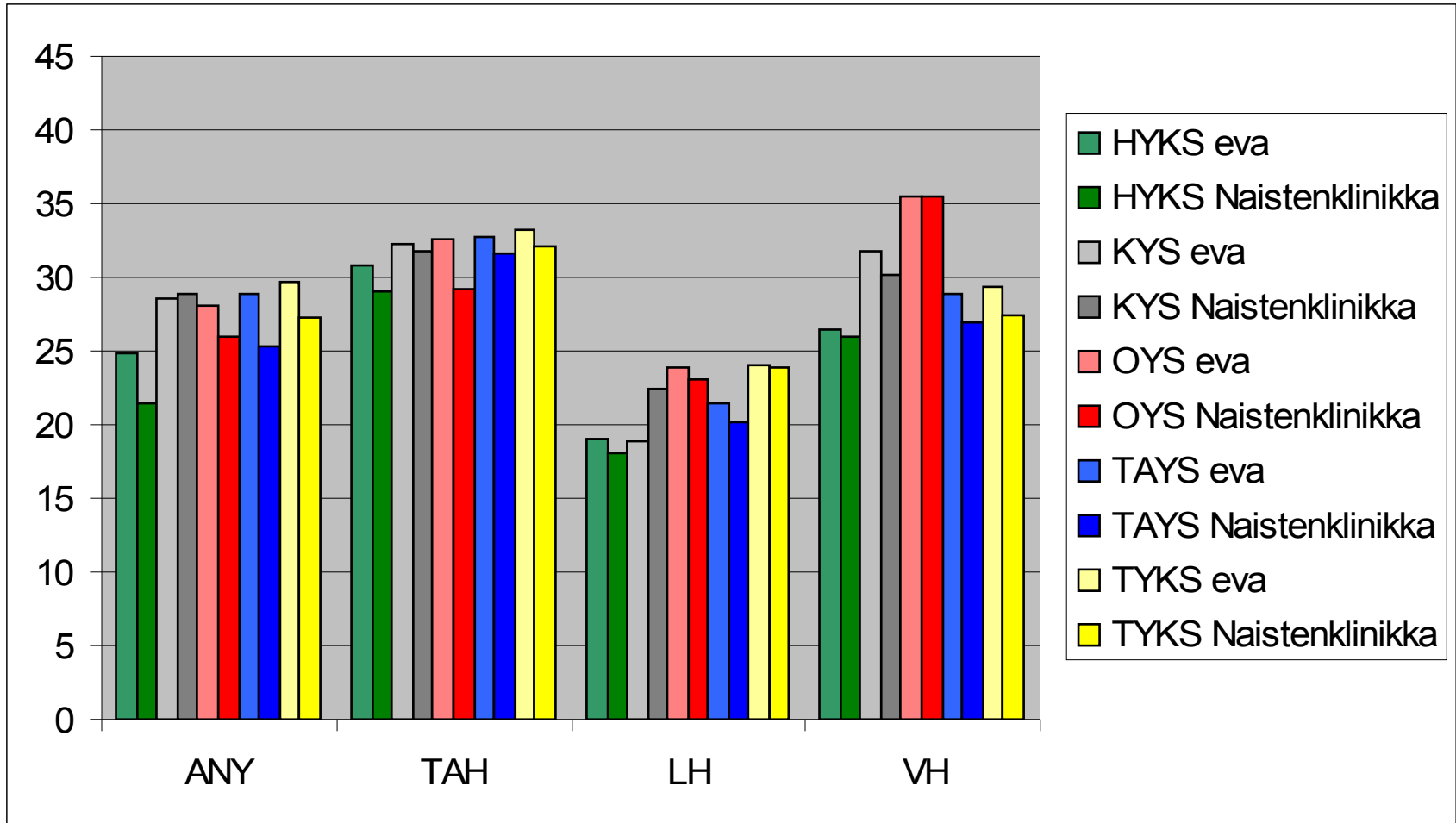
TYKS-eva

- TYKS Naistenklinikka
- Loimaan aluesairaala
- Rauman aluesairaala
- Salon aluesairaala
- Satakunnan keskussairaala
- Turunmaan sairaala
- Vakka-Suomen sairaala

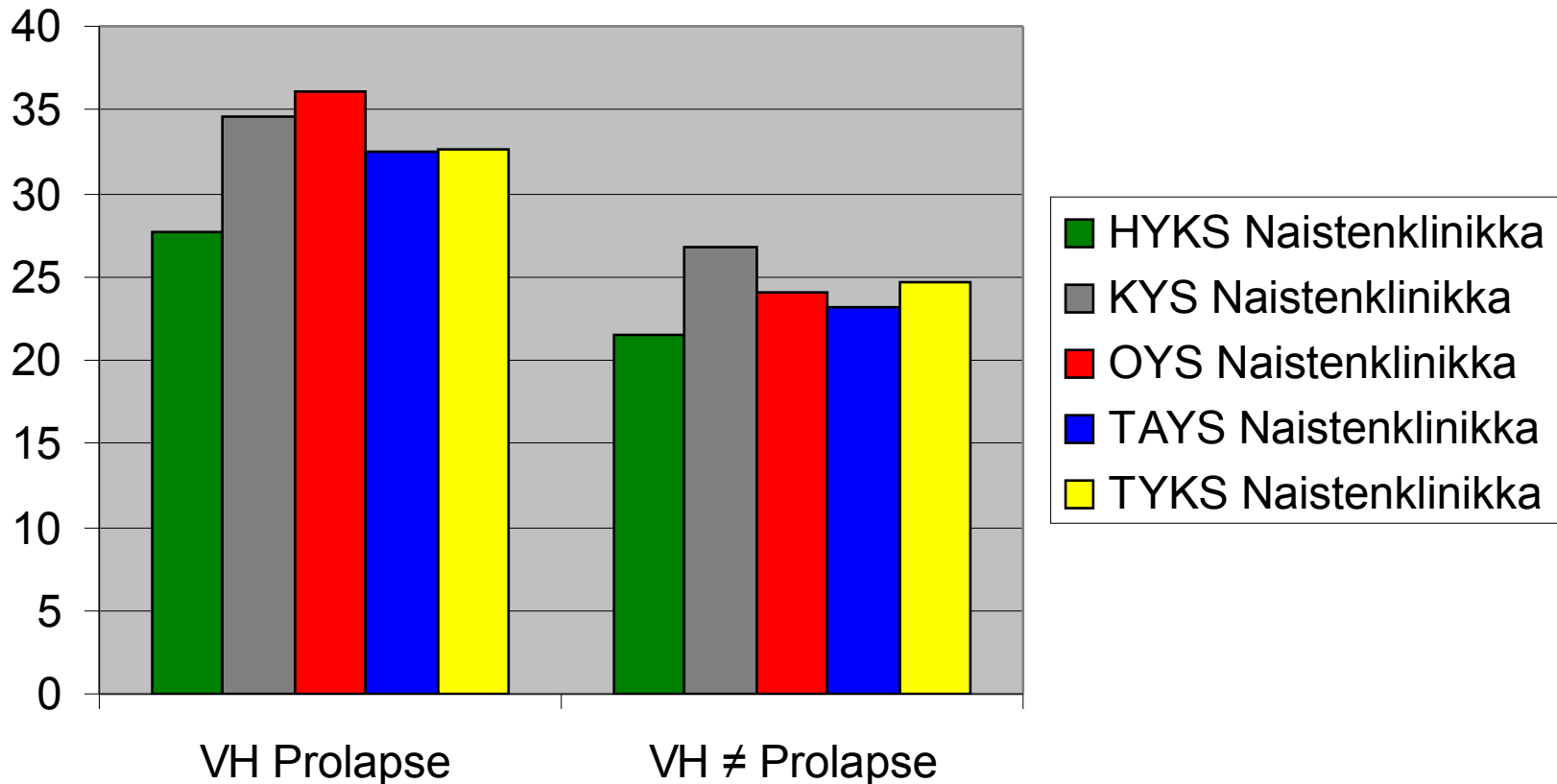
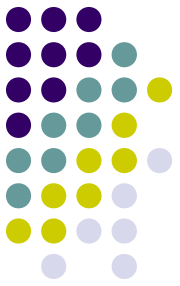
Inhabitants in Finland vs hysterectomies in public hospitals

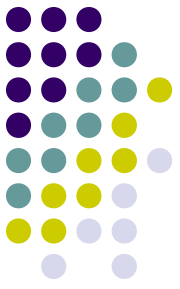


Sick leave (n of days) by areas



Sick leave in VH by indication





THANK YOU !

One more question:

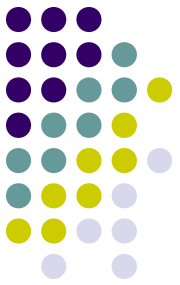
Montako ERI erikoislääkäreitä ja erikoistuvaa lääkäreitä (KPL) sairaalassanne teki kohdunpoistoja vuonna 2006 ?

Esim: "5 spesialistia ja 2 junioria"

Lähetä: tea.brummer@hus.fi



THANK YOU FINHYST 2006 NETWORK



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Merja Pohto-Keskinen Etelä-Pohjanmaan KS

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Veikko Laukama Heinolan S

Juhani Vartiainen HYKS Jorvin S

Lauri Suhonen HYKS KOS

Päivi Härkki HYKS NKL

Ewa Jokinen Hyvinkään S

Pekka Stavén Iisalmen S

Leena Häivä-Mällinen Kainuun KS

Kirsti Niemi Kanta-Hämeen KS

Jari Johansson Keski-Pohjanmaan KS

Arja Kuronen Keski-Suomen KS

Lauri Pajanen Kuusankosken S

Liisa Tikkala Kymenlaakson KS

Anna-Mari Heikkinen KYS

Sirkka Haakana Lapin KS

Hans-Anders Unnerus Lohjan S

Matti Eriksson Loimaan AS

Mehmet Altinörs Länsi-Pohjan KS

Helena Hieta-Heikurainen Länsi-Uudenmaan S

Timo Tiilikainen Mikkelin KS

Leena Pekkarinen Mäntän AS

Eero Vuori Nokian Tk

Pia Pesonen Oulaskankaan S

Ulla Puistola OYS

Hannele Holopainen Pieksämäen S

Fikre Fundusa Pietarsaaren S

Jaana Fraser Pohjois-Karjalan KS

Esa Rätty Porvoon S

Marjaleena Setälä Päijät-Hämeen KS

Antti Hakala Raahen S

Pertti Grönman Rauman AS

Pekka Kulju Sairaala Lapponia

Yrjö Pitkänen Salon AS

Minna Maunola Satakunnan KS

Martti Merilä Savonlinnan KS

Eija Tomás TAYS

Krister Friman Turunmaan S

Eero Niemelä TYKS

Jukka Multamäki Vaasan KS

Matias Eronen Vakka-Suomen S

Hannu Ranta Valkeakosken AS

Juhani Rapila Vammalan AS

Pirkko Juvonen Varkauden S

Markku Korvela Ålands CS