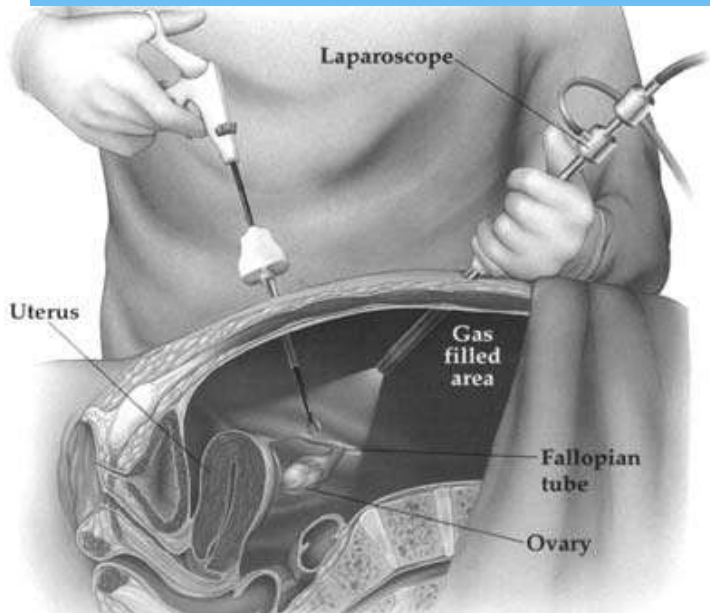


Wetenschappelijk bijeenkomst

Laparoscopische uterus extirpatie
Aafke Snoeijen & Huy Ngo duc



Kopstukken



Casus mw. P-B 1960

- Relevante voorgeschiedenis:
 - 1991 sectio i.v.m. Preeclampsie
 - 1992 secundaire infertiliteit i.v.m. Tubaprobleem
 - 1999 hevig vaginaal bloedverlies ondanks microgynon 30
 - 2003 progressieve dysmenorroe

Vervolg Casus

Maart 2010:

- buikpijn persisteert onder Mirena
- >50 % van de maand spotting

Vervolg Casus

September 2010:

- Hevige buikpijn tijdens spotting/doorbraakbloedingen
- Doorbraakbloedingen van 7 dagen met stolselverlies
- Lichte climacteriele klachten

Verwijzing gynaecoloog

Vervolg Casus

Gynaecoloog

Geen onderliggend anatomisch lijden

Weinig descensus uterus

Conclusie: dysfunctioneel vaginaal bloedverlies

Vervolg Casus

Behandeling opties:

- Hormonaal
- Endometrium ablatie of resectie
- Uterus extirpatie

The Dictator



Gezondheidsprobleem

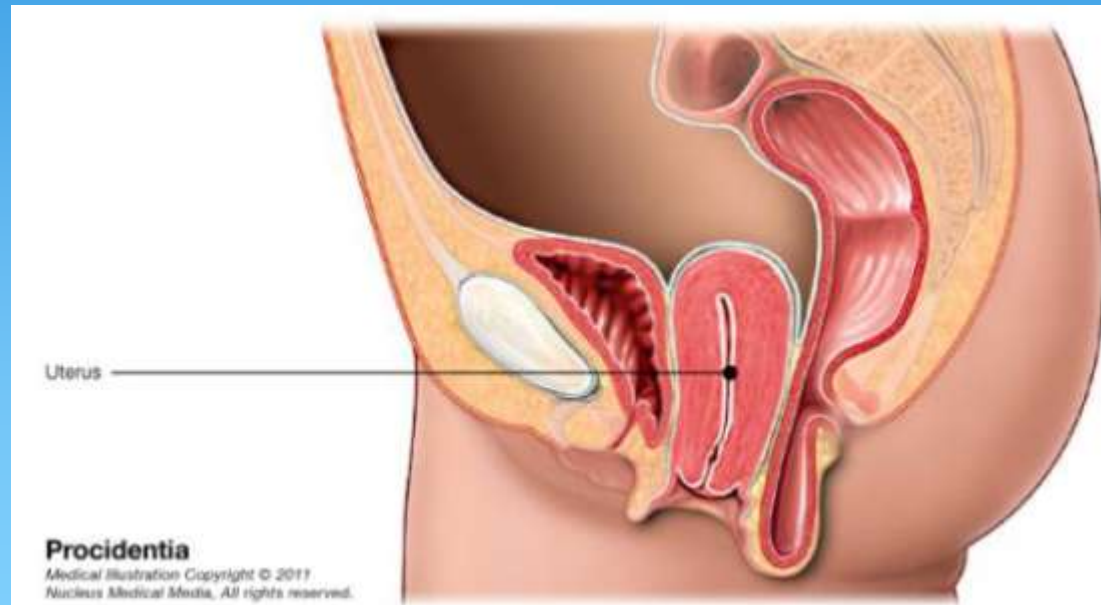
10% van alle premenopauzale vrouwen

10-20% van alle premenopauzale vrouwen een ernstig
ijzertekort

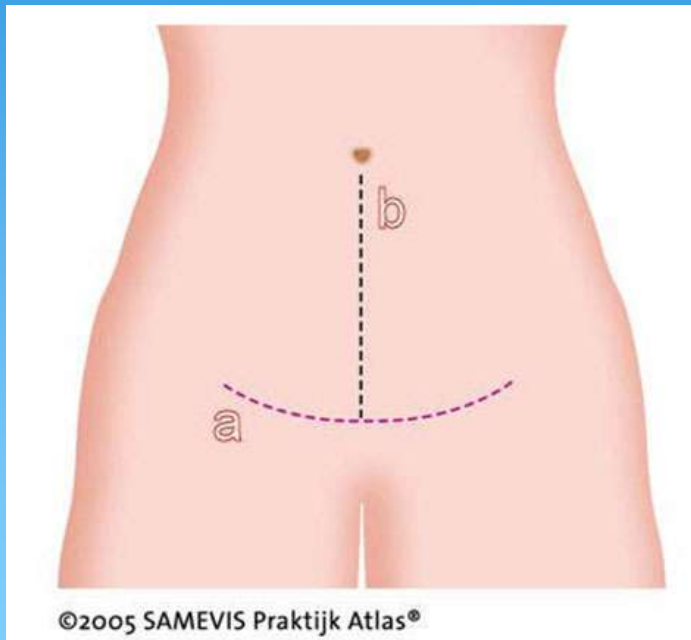
na uterusextirpatie in verband met menorragisch
bloedverlies hoog tevredenheidspercentage (ca. 95%)

De mortaliteit van een uterusextirpatie voor benigne
indicaties is 1 op de 2000 onder de 50 jaar

Keuze vaginaal of abdominaal



Keuze abdominaal of laparoscopisch

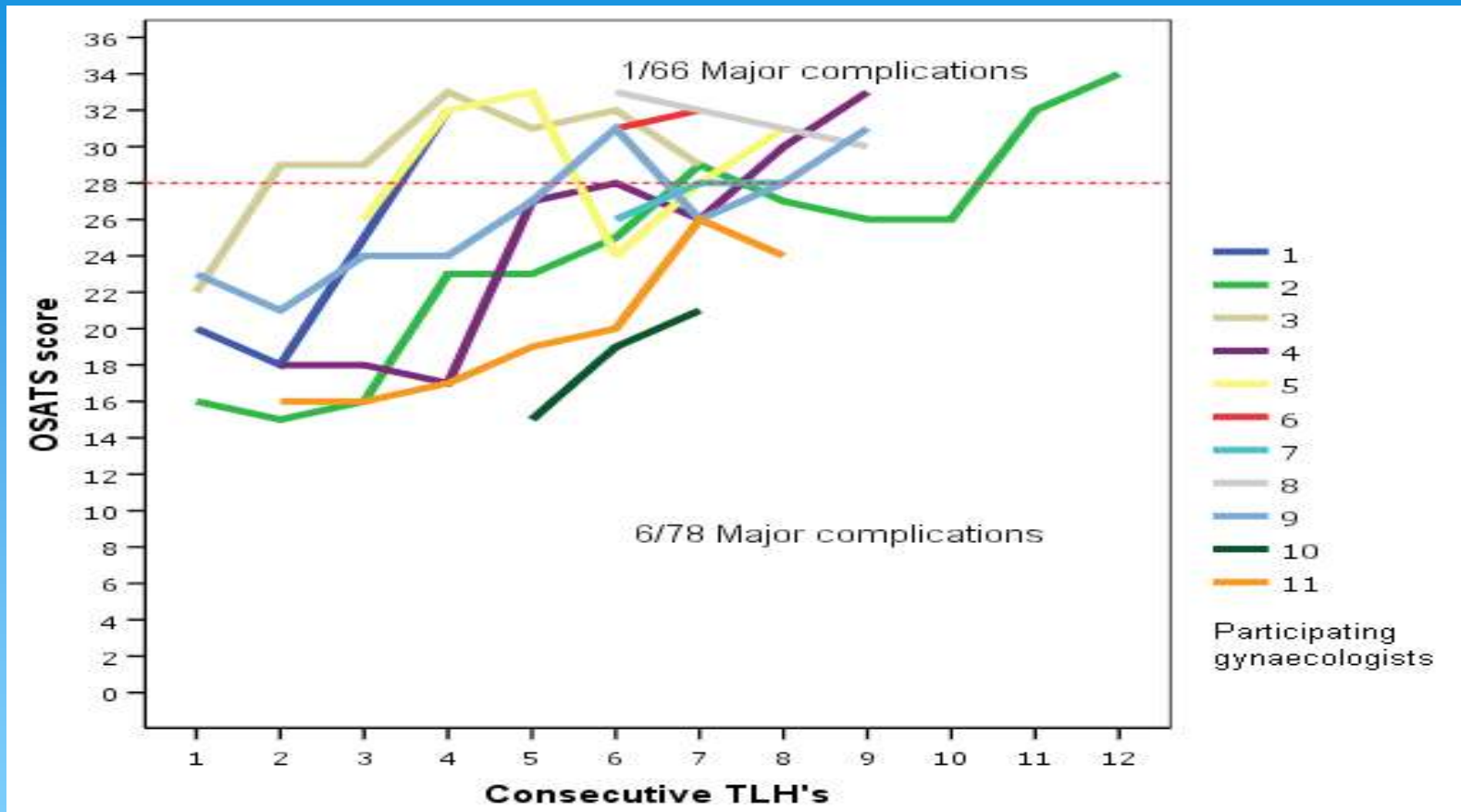


De eerste laparoscopisch geassisteerde vaginale
hysterectomie (LAVH) werd in 1988 verricht

- TLH is een relatief nieuwe techniek (1989, Reich et al. J Gyn Surg)
- Moeilijkheidsgraad laparoscopische techniek level 3 (RCOG 2001)
- Vereist andere psychomotore vaardigheden dan open chirurgie (Munz et al, Surg Endosc, 2004)
- Lange leercurve (Lehman Ann Surg, 2005. Taffinder 1998)

Tijdens de leercurve

- neemt de complicatie rate af (Wattiez 2002, Shen 2003)
- neemt duur van de ingreep af (Holub 2003, Eltabbakh 2000)...
- ... om vergelijkbaar te worden met die van open procedure (Perino 1999)



Resultaten van laparoscopisch geassisteerde vaginale hysterectomie in het Ikazia Ziekenhuis te Rotterdam, 1993-1997

A.K.E.prinsen en M.E.vierhout

TABEL 2. Klinische gegevens van 83* patiënten die een laparoscopisch geassisteerde vaginale uterusextirpatie ondergingen, Ikazia Ziekenhuis Rotterdam, 1993-1997

gemiddelde operatieduur in min (uitersten)	87 (45-130)
gemiddelde opnameduur in dagen (uitersten)	6 (3-15)
gemiddeld gewicht uterus in g (uitersten)	210 (70-670)
aantal complicaties	
anemie leidend tot bloedtransfusie	11
buikwandhematoom	4
koorts†	4
wondinfectie	0
urinewegsinfectie	3
blaaslaesie	2
nabloeding waarvoor laparotomie nodig was	1
littekenbreuk	1

*Exclusief 1 patiënt bij wie conversie naar een abdominale uterusextirpatie nodig was.

†Meer dan 36 uur na de operatie een lichaamstemperatuur $\geq 38^{\circ}\text{C}$ op 2 verschillende dagen of 1 koortspiek $> 39^{\circ}\text{C}$.

Cijfers: AUE

Author	Costs		Effects		
	Procedure (time in minutes)	Hospital stay (days)	Complication rate * (Major)	Complication rate * (Minor)	Complication rate * (Overall)
Abdelmonem 2006	127.2	3.7	10.0 (5/50)	28.0 (14/50)	32.0 (16/50)
Van den Eeden 1998	151.4	3.3	1.2 (2/164)	14.0 (23/164)	15.2 (25/164)‡
Ellstrom 1998	93.1	5.0	33.3 (24/72)**	n.s.	33.3 (24/72)**
Eltabbakh 2001	132.8	5.2	8.8 (5/57)	n.s.	8.8 (5/57)
Falcone 1999	130.0	2.5	23.8 (5/21)	n.s.	23.8 (5/21)
Howard 1993	119.0	5.2	40.0 (6/15)	n.s.	40.0 (6/15)
Kung 1996	112.0	5.2	17.8 (28/157)	n.s.	17.8 (28/157)
Leng 2004	n.a.	7.4	n.a.	n.a.	n.a.
Lumsden 2000	47.3	5.7	1.1 (1/95)	n.s.	14.0
Raju 1994	57.0	6.0	0.0 (0/40)	n.s.	0.0 (0/40)
Sculpher 2004	74.1	5.1	6.2 (18/292)*	27.1 (79/292)**	n.s.
Summit 1998	146.0	4.1	32.3 (10/31)	n.s.	32.3 (10/31)‡
Weighted mean RCT	76.9	5.1	16.1	27.1	24.6
Weighted mean	101.3	4.8	15.9	23.0	21.7

n.s. = not specified; n.a. = not available; * = percentage of patients with complications; ** = data derived from original article; ‡ = number of complications reported.
doi:10.1371/journal.pone.0007340.t005

Costs and Effects of Abdominal versus Laparoscopic Hysterectomy: Systematic Review of Controlled Trials

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Cijfers: LAVH

Author	Costs		Effects		
	Procedure (time in minutes)	Hospital stay (days)	Complication rate * (Major)	Complication rate * (Minor)	Complication rate * (Overall)
Abdelmonem 2006	157.8	1.5	9.8 (5/51)	7.8 (4/51) ^o	13.7 (7/51)
Van den Eeden 1998	200.6	1.8	0.0 (0/56)	0.0 (0/56)	0.0 (0/56) [‡]
Ellstrom 1998	148.0	2.5	26.8 (19/71)**	n.s.	26.8 (19/71)
Eltabbakh 2001	190.5	2.5	11.6 (10/86)	n.s.	11.6 (10/86)
Falcone 1999	180.0	1.5	39.1 (9/23)	n.s.	39.1 (9/23)
Howard 1993	169.0	3.7	13.3 (2/15)	n.s.	13.3 (2/15)
Kung 1996	134.0	4.9	15.2 (21/138)	n.s.	15.2 (21/138)
Leng 2004	n.a.	5.1	n.a.	n.a.	n.a.
Lumsden 2000	81.9	4.0	5.3 (5/95)	n.s.	8.0
Raju 1994	100.0	3.5	5.0 (2/40)	n.s.	5.0 (2/40)
Sculpher 2004	108.1	4.0	10.1 (59/584)**	25.2 (147/584)**	n.s.
Summit 1998	179.8	2.1	20.6 (7/34)	n.s.	20.6 (7/34) [‡]
Weighted mean RCT	113.0	3.7	17.8	25.2	19.9
Weighted mean	127.7	3.6	14.3	11.0	15.3

n.s. = not specified; n.a. = not available; * = percentage of patients with complications; ** = data derived from original article; ^o = converted patients reported on complication level instead of patient level. Therefore these patients can not be excluded; [‡] = number of complications reported.
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Netherlands

Kosten?

Author	Currency	LH		AH		Cost components
		direct	Indirect	direct	indirect	
Abdelmonem 2006	US dollar	\$16,451 ↑	n.i.	\$15,145	n.i.	Hospital cost, anesthesia
V. d. Eeden 1998	US dollar	\$8,099 ↓	n.i.	\$9,135	n.i.	Preoperative costs, hospital costs (procedure, hospital stay, physician fee), postoperative costs.
Ellstrom 1998	SEK	\$3,169 ↑	\$1,411 ↓	\$3,116	\$2,838	Surgery, services from other departments, hospital stay, postoperative visits, sick leave
Eltabbakh 2001	US dollar	\$13,051 ↑	n.i.	\$11,028	n.i.	Surgeon's fee, anesthesiologist's fee, operating room cost, hospital cost
Falcone 1999	US dollar	\$+277 ↑ *	n.i.	\$0 *	n.i.	Operating room cost, anesthesia, postoperative cost
Howard 1993	US dollar	\$3,926 ↓	n.i.	\$4,524	n.i.	Operating equipment, operating time, anesthesia, non operating costs
Kung 1996	NT dollar	\$1,819 ↑	n.i.	\$1,566	n.i.	Laboratory test, examination charges, surgery and material fees, anesthesia, nursing care, ward fee
Leng 2004	Yuan	\$876 ↑	\$198 ↓	\$749	\$301	Operating costs, outpatient department visits, readmissions, hospital stay (incl. medication), sick leave, transport costs
Lumsden 2000	UK pound	\$3,462 ↑	n.i.	\$2,733	n.i.	Operation costs, hospital stay, readmissions
Raju 1994	UK pound	\$1,909 ↓	n.i.	\$2,652	n.i.	Disposables, hospital stay, operating time
Sculpher 2004	UK pound	\$2,797 ↑	n.i.	\$2,492	n.i.	Ward fee, theatre (staff, overhead, disposables), visits (GP, outpatient department)
Summit 1998	US dollar	\$8,161 ↑	n.i.	\$6,974	n.i.	Not specified
Subtotal RCT		\$19,775 ↑	\$1,411 ↓	\$17,967	\$2,838	
Total		\$63,997 ↑	\$1,609 ↓	\$60,114	\$3,139	

n.i. = not included; * = difference in means; Exchange rates of year of performing study (<http://www.x-rates.com/cgi-bin/hlookup.cgi>).
doi:10.1371/journal.pone.0007340.t003

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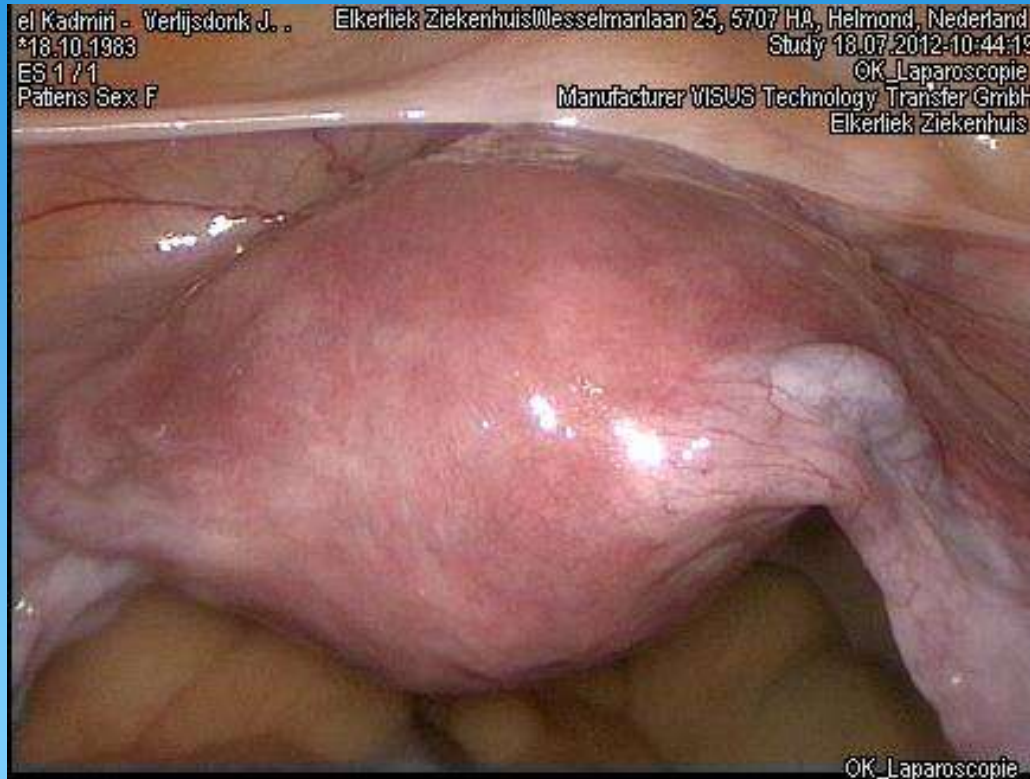
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LAVH in 6 stappen

- Ligamentum rotundum
- Blaas vrij prepareren
- Ligamentum latum uteri
- Ligamentum ovarii proprium en tuba
 - Arterie uterina
 - Openen van de vagina

LAVH: begin situatie



LAVH: lig rotundum/window



LAVH: arterie uterina



LAVH: openen van de vagina



Bronfragment ontbreekt.

LAVH: “VUE”



LAVH: controle ureteren



Toetje

