

# De vrouwelijke chirurg, de betere?



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# Het stereotype

- Zelfverzekerd, autoritair
  - Handig
  - Kan onder hoge druk presteren
  - Werkt lange uren
  - Toegewijd
  - Afstandelijk of emotioneel
- 
- Dit stereotype kan echter afwijken van de werkelijkheid, want veel chirurgen zijn ook empathisch en communicatief vaardig, vooral in de interactie met patiënten en hun families







Koningin Shubad  
van Ur  
2500 B.C.



2024





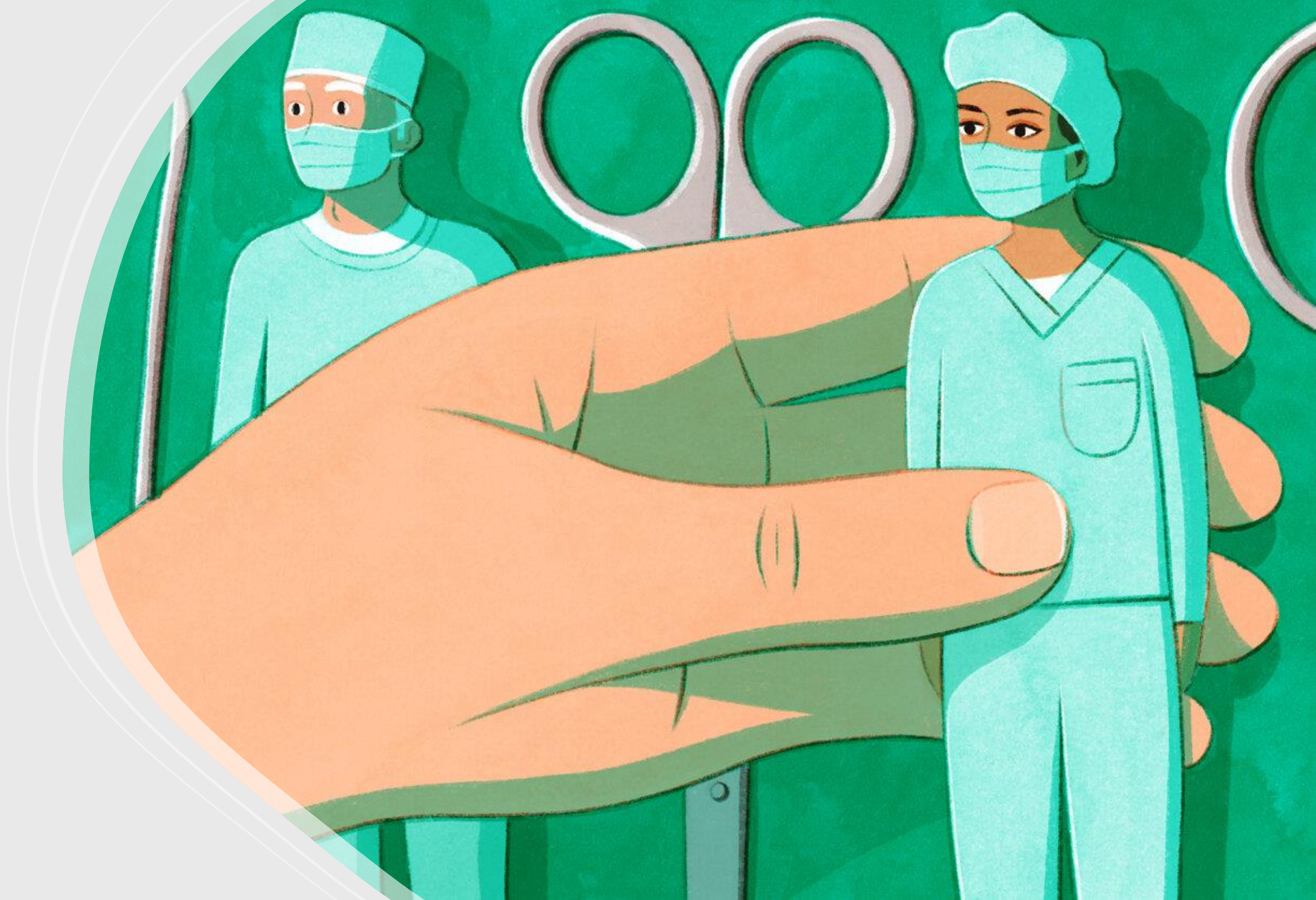
## De voordelen van dualisme

- Toename medische kennis
- Technologisch succes
- Groei van de gezondheidszorg

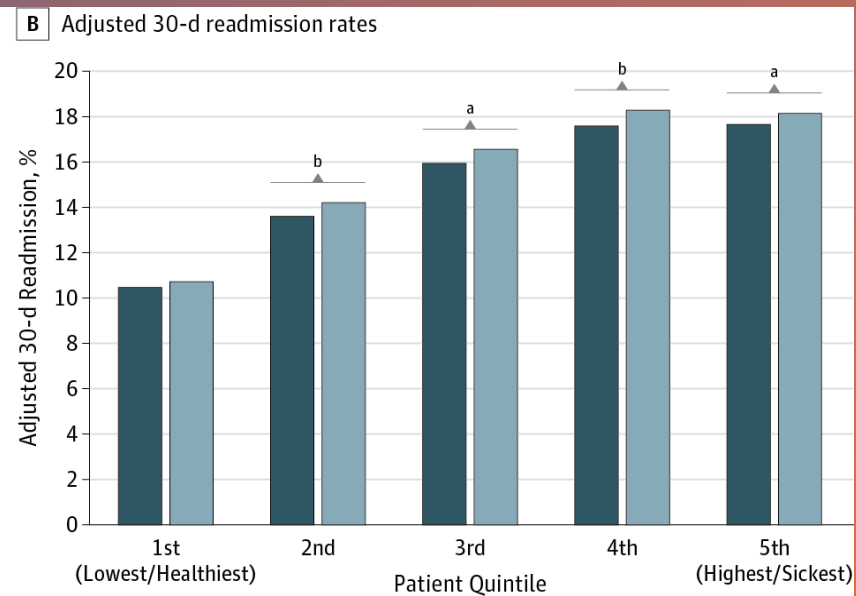
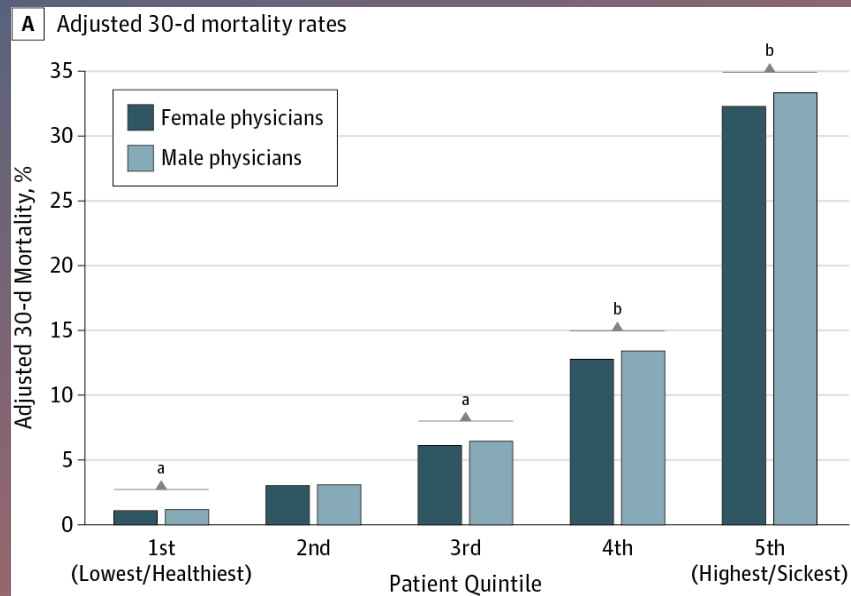








# Wie is de betere arts?

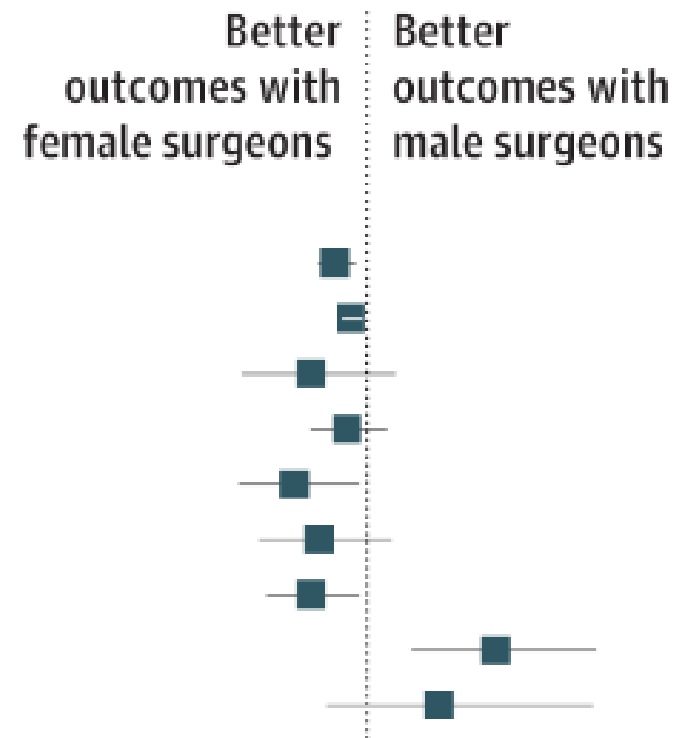


JAMA Intern Med. 2017;177(2):206-213. doi:10.1001/jamainternmed.2016.7875



**A** Male patients

Variable	Discordance (95% CI)
Specialty	
Cardiothoracic surgery	0.92 (0.88-0.97)
General surgery	0.96 (0.94-0.99)
Neurosurgery	0.86 (0.69-1.07)
Orthopedic surgery	0.95 (0.86-1.05)
Otolaryngology	0.82 (0.68-0.98)
Plastic surgery	0.88 (0.73-1.06)
Thoracic surgery	0.86 (0.75-0.98)
Urology	1.32 (1.11-1.57)
Vascular surgery	1.18 (0.90-1.56)

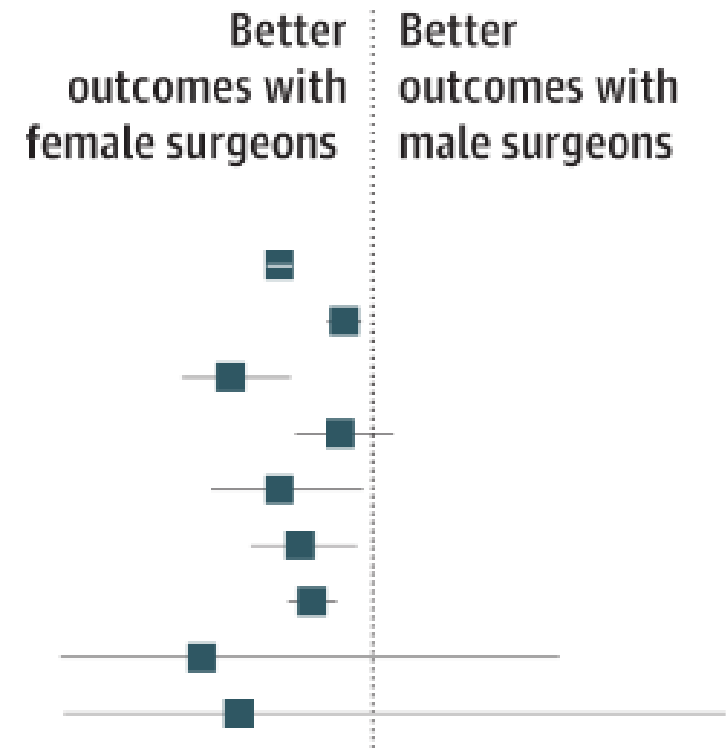


Wie is de betere chirurg?

Wallis et al JAMA surgery 2022

**B** Female patients

Variable	Discordance (95% CI)
Specialty	
Cardiothoracic surgery	0.77 (0.74-0.80)
General surgery	0.93 (0.89-0.97)
Neurosurgery	0.65 (0.53-0.80)
Orthopedic surgery	0.92 (0.81-1.05)
Otolaryngology	0.77 (0.60-0.98)
Plastic surgery	0.82 (0.70-0.96)
Thoracic surgery	0.85 (0.79-0.91)
Urology	0.58 (0.23-1.46)
Vascular surgery	0.67 (0.24-1.87)



Wie is de betere chirurg?

Wallis et al JAMA surgery 2022

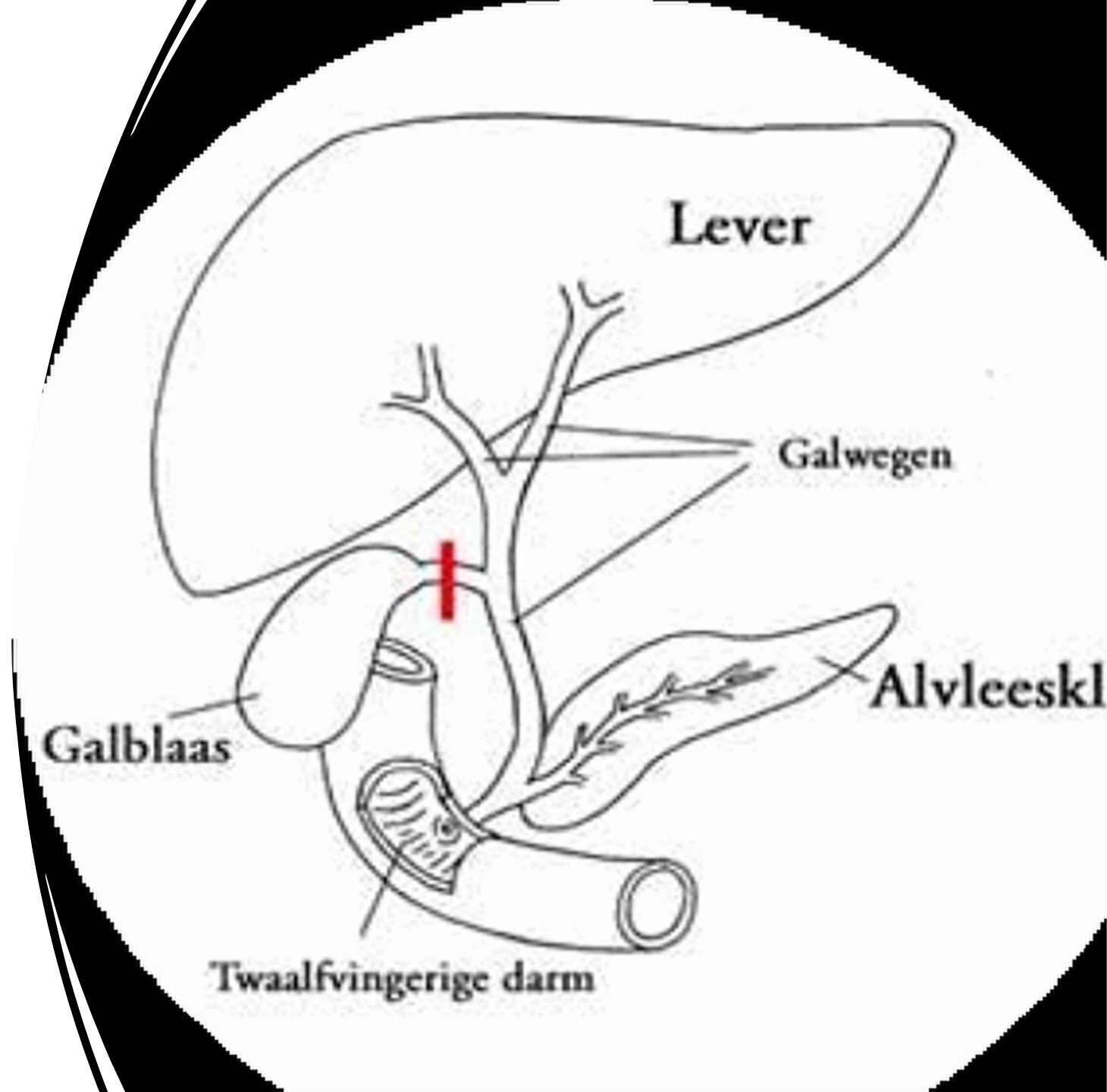


# De cholecystectomy

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- 150.509 patiënten
- 2006-2019
- Zweden
  
- Primaire uitkomst: chirurgische complicaties
- Secundaire uitkomsten: operatieduur, opname duur, andere complicaties

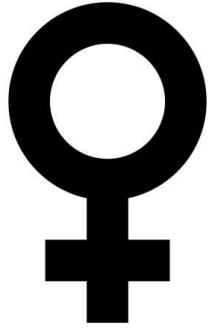
Blohm et al *JAMA Surg* 2023



**Table 3. Generalized Estimating Equations for Different Outcomes Among Male and Female Surgeons**

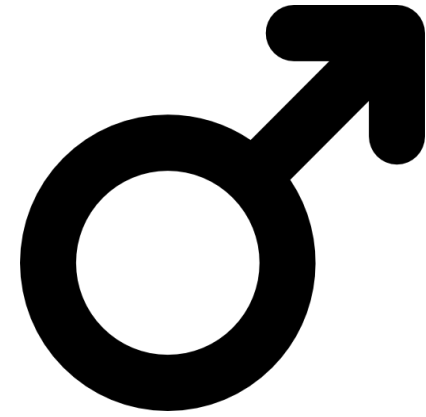
Group	All operations <sup>a</sup>			Elective surgery <sup>b</sup>			Acute care surgery <sup>c</sup>		
	No. (%)	OR (95% CI)	P value	No. (%)	OR (95% CI)	P value	No. (%)	OR (95% CI)	P value
<b>Surgical complications<sup>d</sup></b>									
Female surgeon	1258 (3.3)	1 [Reference]	NA	680 (2.7)	1 [Reference]	NA	578 (4.6)	1 [Reference]	NA
Male surgeon	4876 (4.3)	1.29 (1.19-1.40)	<.001	2650 (3.7)	1.39 (1.25-1.54)	<.001	2226 (5.6)	1.17 (1.04-1.32)	.01
<b>Bile duct injury<sup>d</sup></b>									
Female surgeon	94 (0.2)	1 [Reference]	NA	54 (0.2)	1 [Reference]	NA	40 (0.3)	1 [Reference]	NA
Male surgeon	438 (0.4)	1.56 (1.21-2.00)	<.001	254 (0.3)	1.69 (1.22-2.34)	.001	184 (0.5)	1.37 (0.93-2.00)	.11
<b>Total complication rate<sup>e</sup></b>									
Female surgeon	3401 (9.0)	1 [Reference]	NA	1924 (7.6)	1 [Reference]	NA	1477 (11.7)	1 [Reference]	NA
Male surgeon	11 527 (10.2)	1.12 (1.06-1.19)	<.001	6190 (8.5)	1.14 (1.06-1.22)	<.001	5337 (13.3)	1.11 (1.02-1.20)	.02
<b>Conversion to open surgery<sup>d</sup></b>									
Female surgeon	4129 (10.9)	1 [Reference]	NA	1777 (7.1)	1 [Reference]	NA	2352 (18.6)	1 [Reference]	NA
Male surgeon	13 873 (12.3)	1.13 (0.91-1.41)	.28	5246 (7.2)	1.03 (0.69-1.55)	.87	8627 (21.5)	1.22 (1.04-1.43)	.02
<b>Length of stay &gt;3 d<sup>f</sup></b>									
Female surgeon	3527 (9.3)	1 [Reference]	NA	1106 (4.4)	1 [Reference]	NA	2421 (19.1)	1 [Reference]	NA
Male surgeon	12 882 (11.4)	1.21 (1.11-1.31)	<.001	3918 (5.4)	1.28 (1.14-1.45)	<.001	8964 (22.4)	1.16 (1.06-1.27)	.001





- 100 (43)

- 126 (53)

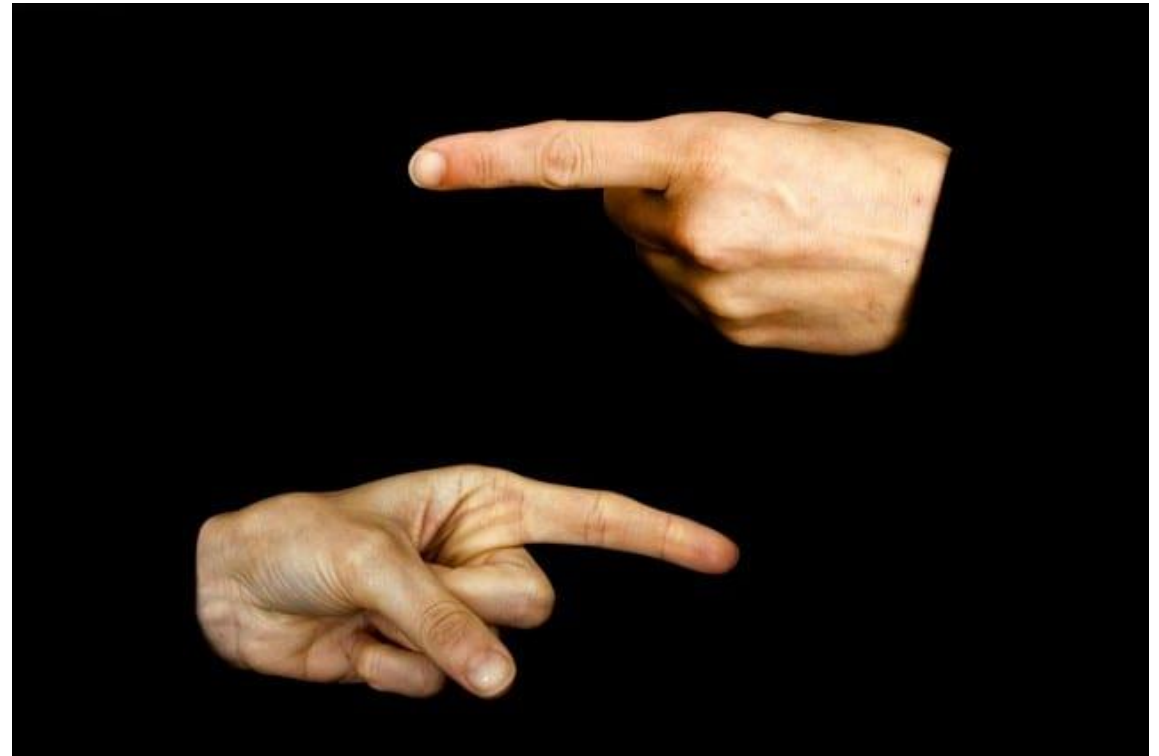


- 89 (44)

- 111 (55)

# Maar

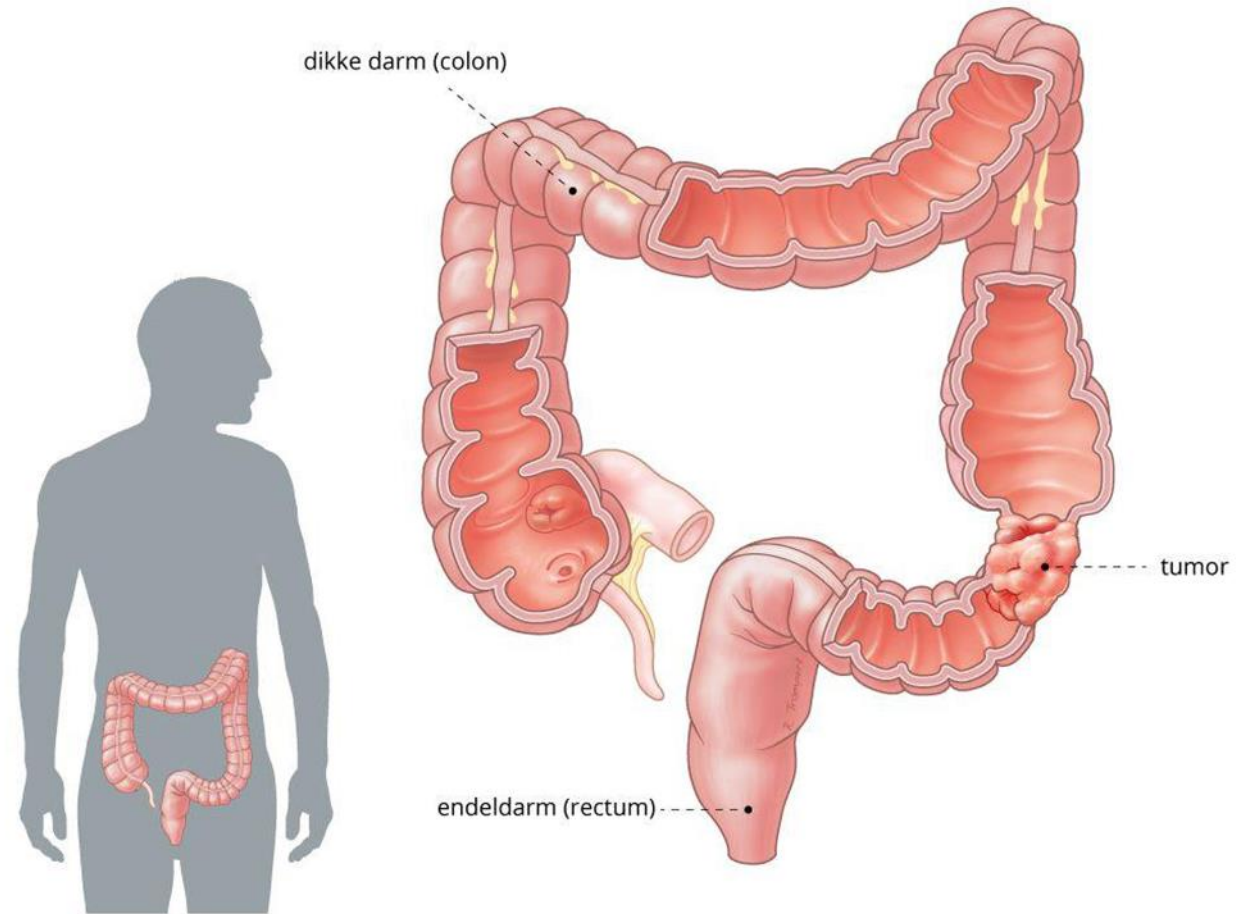
- Wie was de oudste operateur?
- Wie maakte de complicatie?



# Colonchirurgie

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- 1 centrum, Zweden
- 23 mannelijke chirurgen
- 9 vrouwelijke chirurgen
- 1113 patiënten
- 2010-2020
  
- Electief geen verschil in complicaties

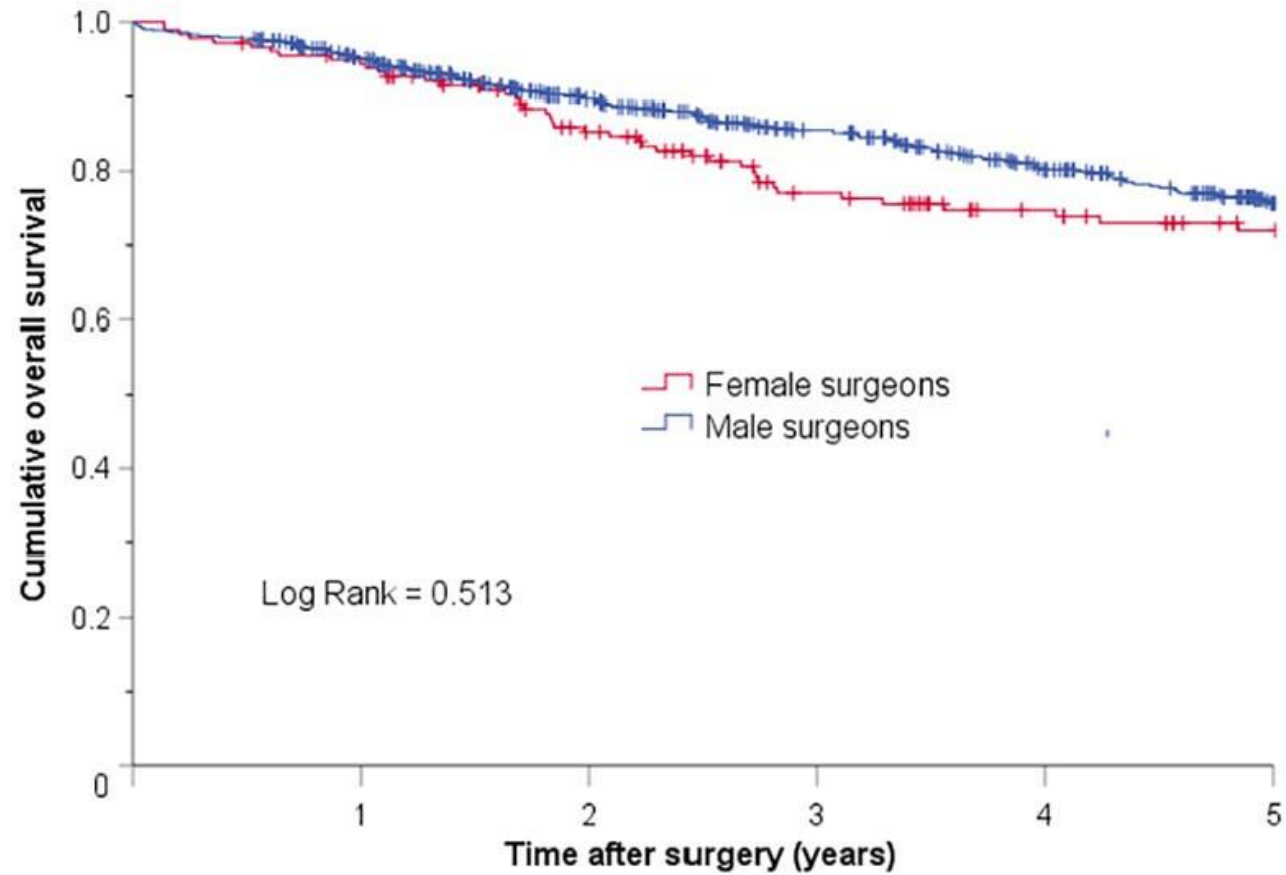




# Uitkomsten van acute colonchirurgie

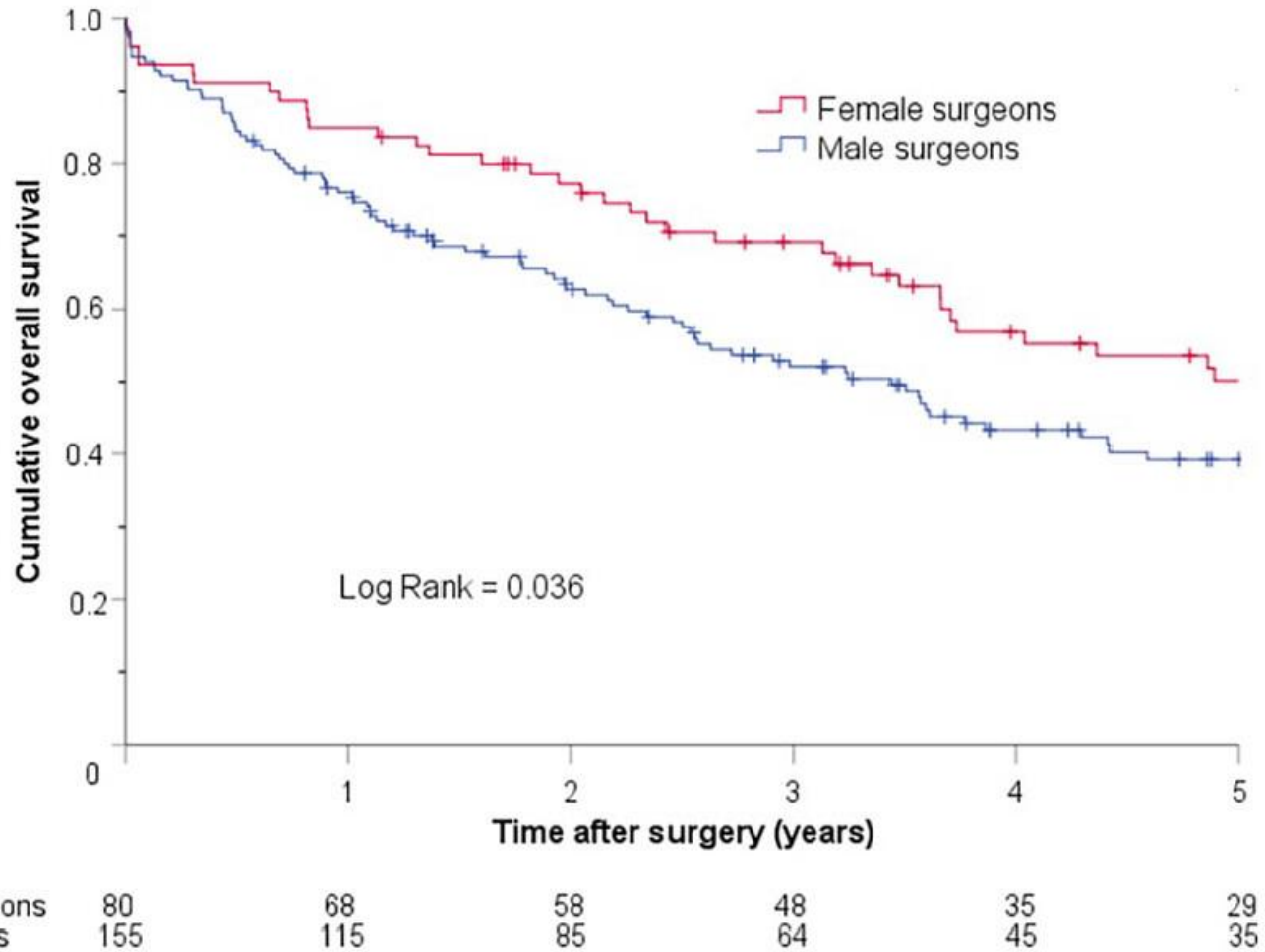
	Vrouwen	Mannen
Complicaties	41%	58%
R1 resectie	0%	5,2%
Heroperaties	3,8%	14,2%
Mortaliteit	6.3	5.2%

# Overleving na electieve colonchirurgie



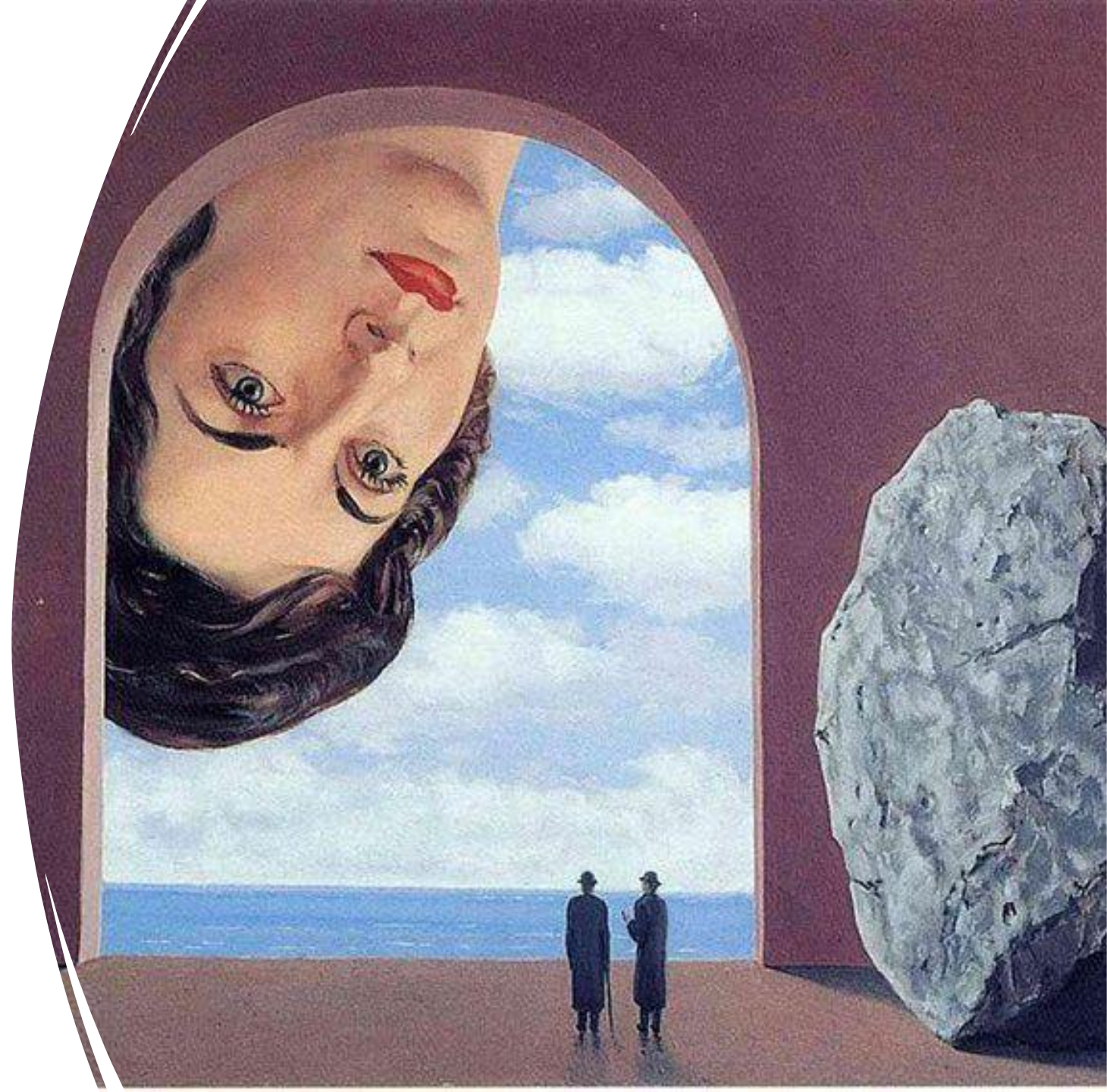
No. at risk							
Female surgeons	178	166	135	105	87	74	
Male surgeons	700	629	505	422	348	266	

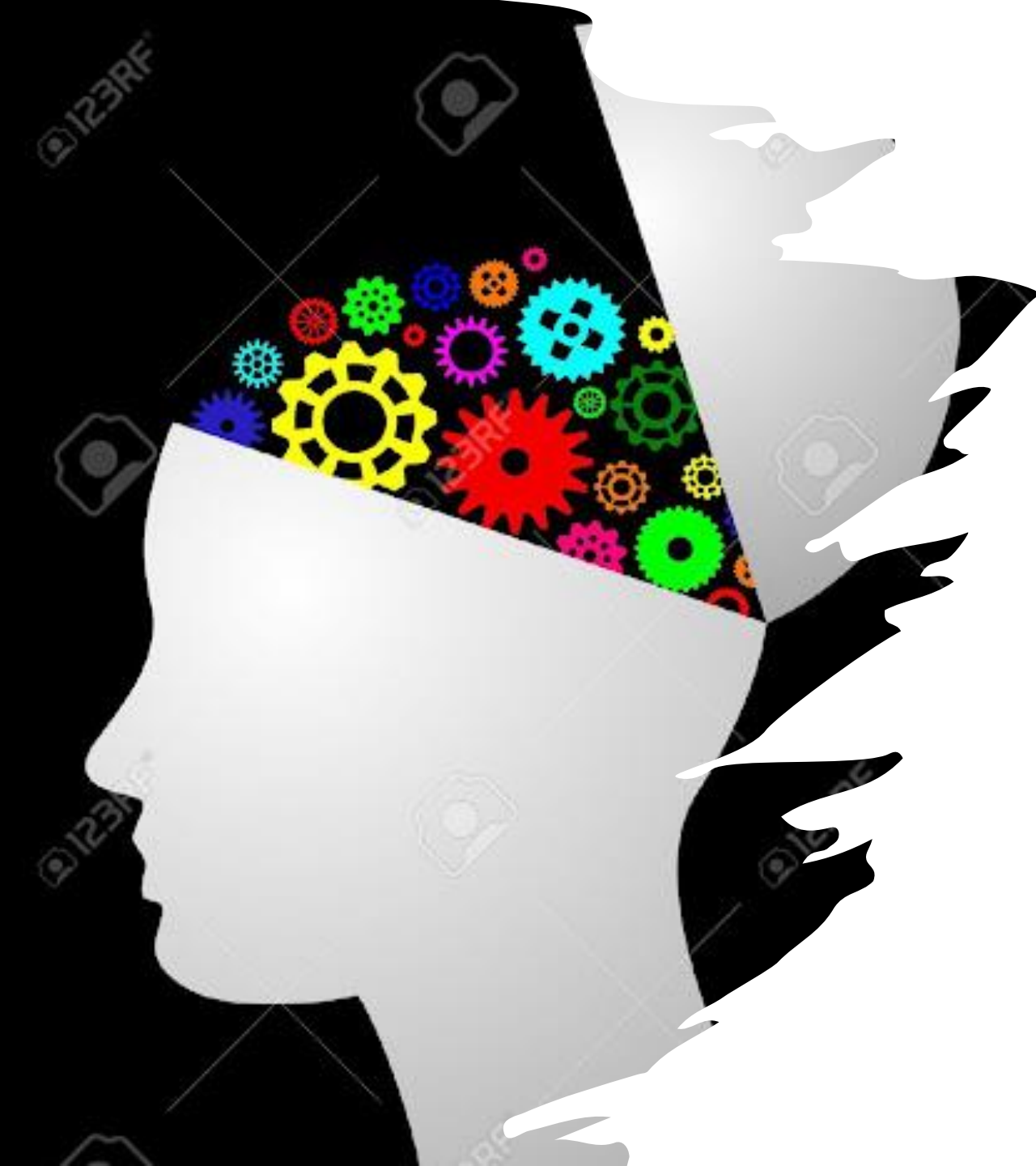
# Overleving na acute colonchirurgie





# Een ander perspectief





# De invloed van persoonlijkheid op besluitvorming

emotionele stabiliteit

vriendelijkheid

extravert

**openheid/ creativiteit**

verantwoordelijkheidsgevoel





# Leiderschaps stijl en uitkomsten

- Humanistisch, verbindend
  - 14.7 vs 17.7 %
- Passief/ defensief
  - 14.8 vs 18.7 %







• 2.

- Blohm M, Sandblom G, Enochsson L, et al: Differences in cholecystectomy outcomes and operating time between male and female surgeons in Sweden. *JAMA Surg* 2023;158(1):1168–1175. [Crossref](#). [PubMed](#).

• 3.

- Report Swedish Colorectal Cancer Registry (colon). Available at: [https://cancercentrum.se/globalassets/cancerdiagnoser/tjock-och-andtarm-anal/kvalitetsregister/tjock-och-andtarm-2023/kolonrapport\\_2022.pdf](https://cancercentrum.se/globalassets/cancerdiagnoser/tjock-och-andtarm-anal/kvalitetsregister/tjock-och-andtarm-2023/kolonrapport_2022.pdf) (2022, accessed 6 March 2024).

1. Bisset, C. N., Ferguson, E., MacDermid, E., Stein, S. L., Yassin, N., Dames, N., Keller, D. S., Oliphant, R., Parson, S. H., Cleland, J., Moug, S. J., & Plato Project Steering Group Collaborators (2022). Exploring variation in surgical practice: does surgeon personality influence anastomotic decision-making?. *The British journal of surgery*, znac200. Advance online publication. <https://doi.org/10.1093/bjs/znac200>
2. Moug, S. J., Henderson, N., Tiernan, J., Bisset, C. N., Ferguson, E., Harji, D., Maxwell-Armstrong, C., MacDermid, E., Acheson, A. G., Steele, R., Fearnhead, N. S., & Edinburgh Delphi Collaborative Group (2018). The colorectal surgeon's personality may influence the rectal anastomotic decision. *Colorectal disease : the official journal of the Association of Coloproctology of Great Britain and Ireland*, 20(11), 970–980. <https://doi.org/10.1111/codi.14293>
3. Bisset, C. N., McKee, T., Cawley, M., Tilling, E., & Moug, S. J. (2020). A Systematic Review of the Abdominal Surgeon's Personality: Exploring Common Traits in Western Populations. *Behavioural sciences (Basel, Switzerland)*, 11(1), 2. <https://doi.org/10.3390/bs11010002>



Biology is King,  
Selection is  
Queen,  
Technical  
manoeuvre is  
Prince



Blake Cady, Harvard medical  
school