# HEELKUNDIGE BEHANDELING VAN BPH IN 2021

- Leuven — prof. dr. Ben Van Cleynenbreugel, Urologie
- Brugge — dr. Pieter Uvin, Urologie
- Hasselt — dr. Jan Vanderkerken, Urologie
- Turnhout — dr. Raf Van Reusel, Urologie

- Leuven — prof. dr. Ben Van Cleynenbreugel, Urologie
- Brugge — dr. Pieter Uvin, Urologie
- Hasselt — dr. Jan Vanderkerken, Urologie
- Turnhout — dr. Raf Van Reusel, Urologie

**Introductie: turp als gouden standaard?**
prof. dr. Ben Van Cleynenbreugel

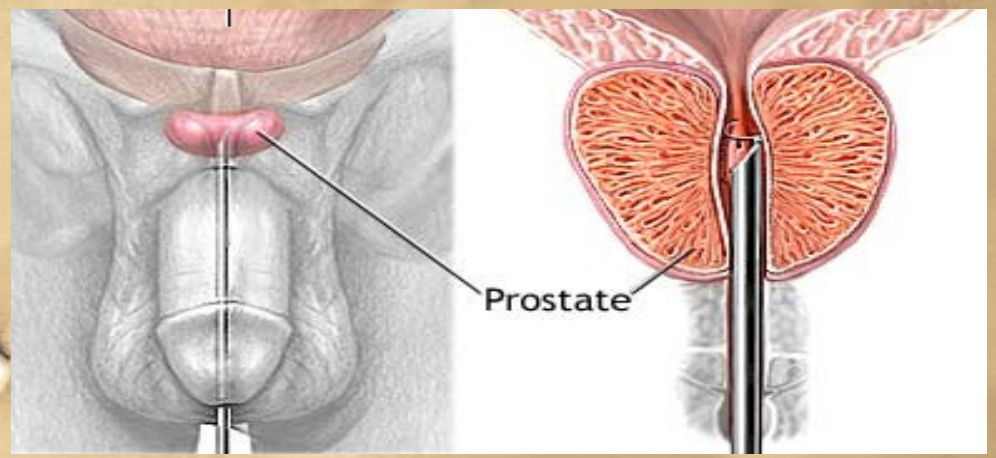
**Holep - endoscopische enucleatie van de prostaat**
dr. Carl Van Haute

**Prostaat embolisatie**
prof. dr. Geert Maleux

**Robot assisted adenomectomie**
dr. Geert De Naeyer

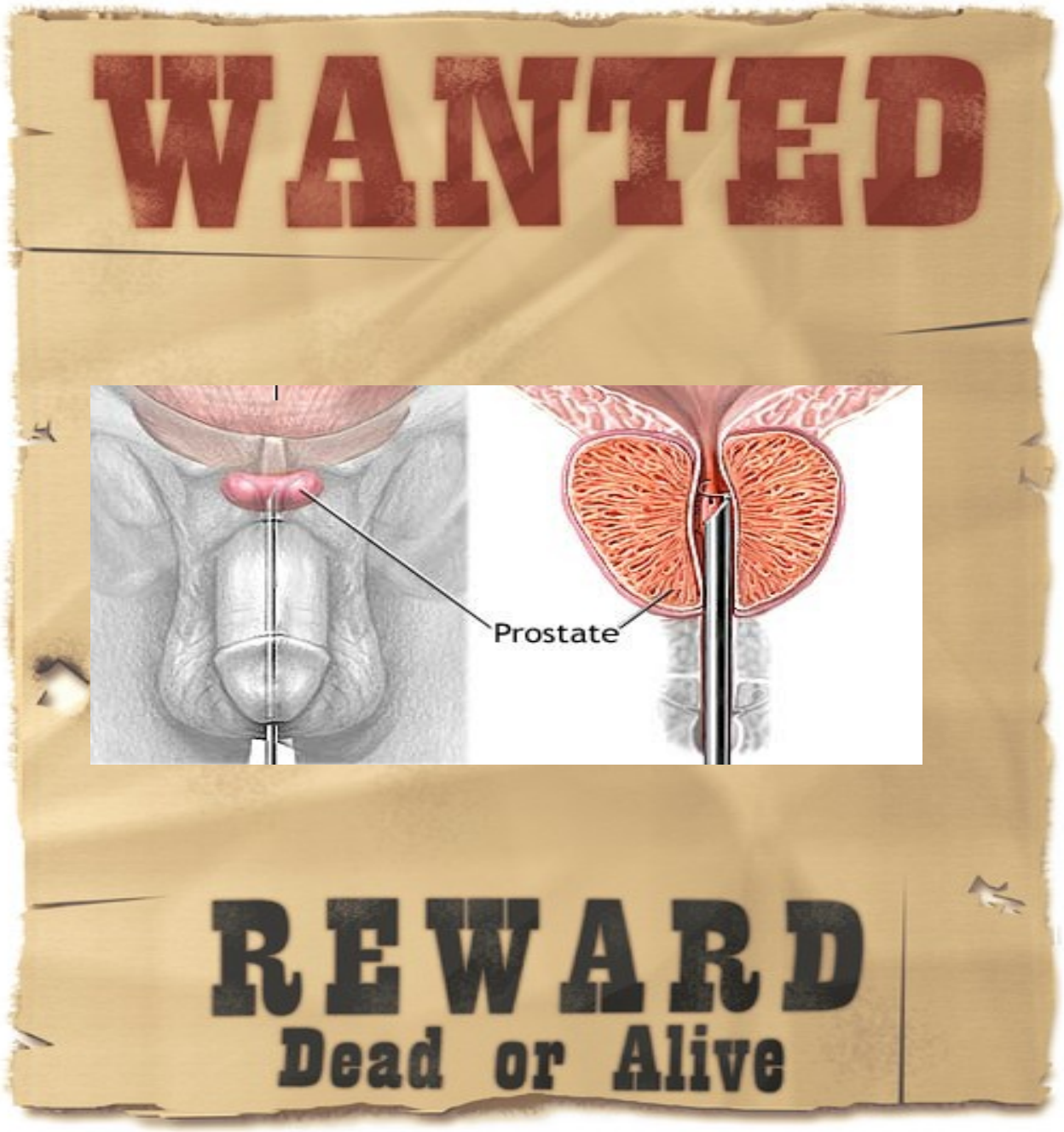
**Rezum**
dr. Bernard Rappe

# WANTED

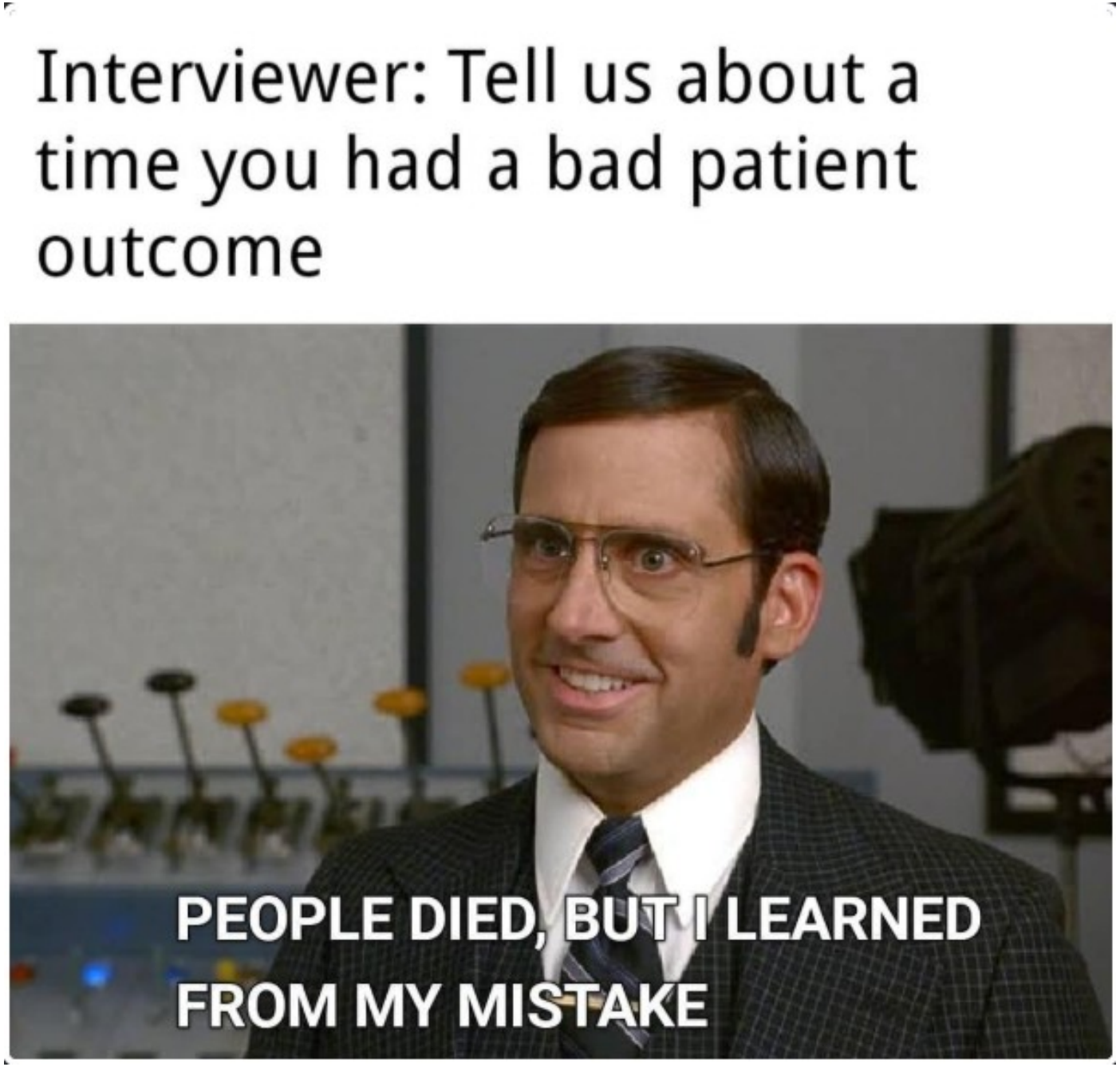



# REWARD

**Dead or Alive**

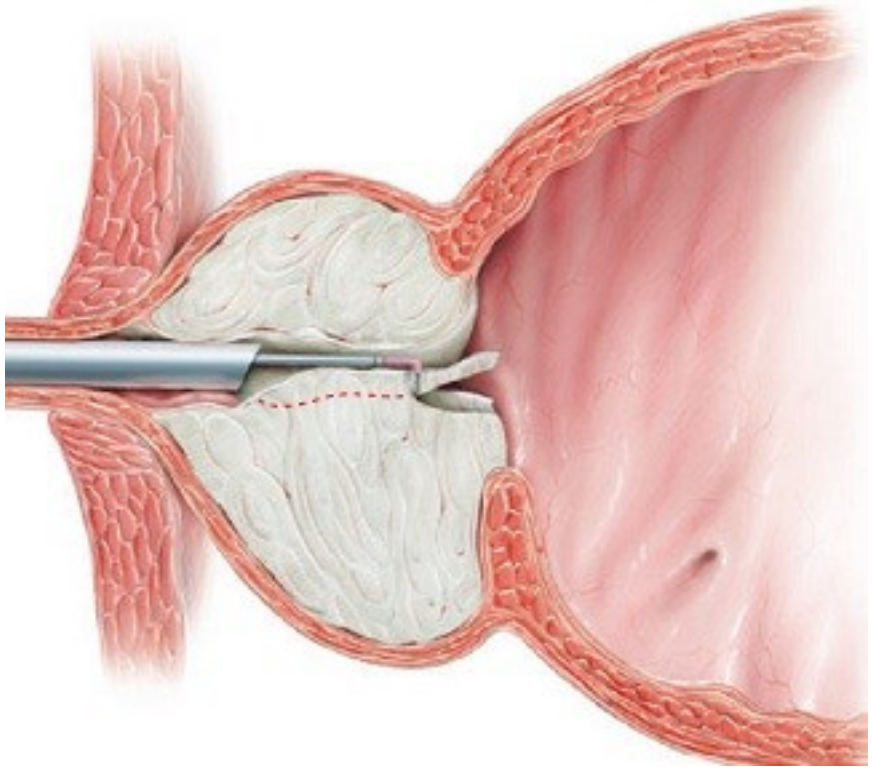


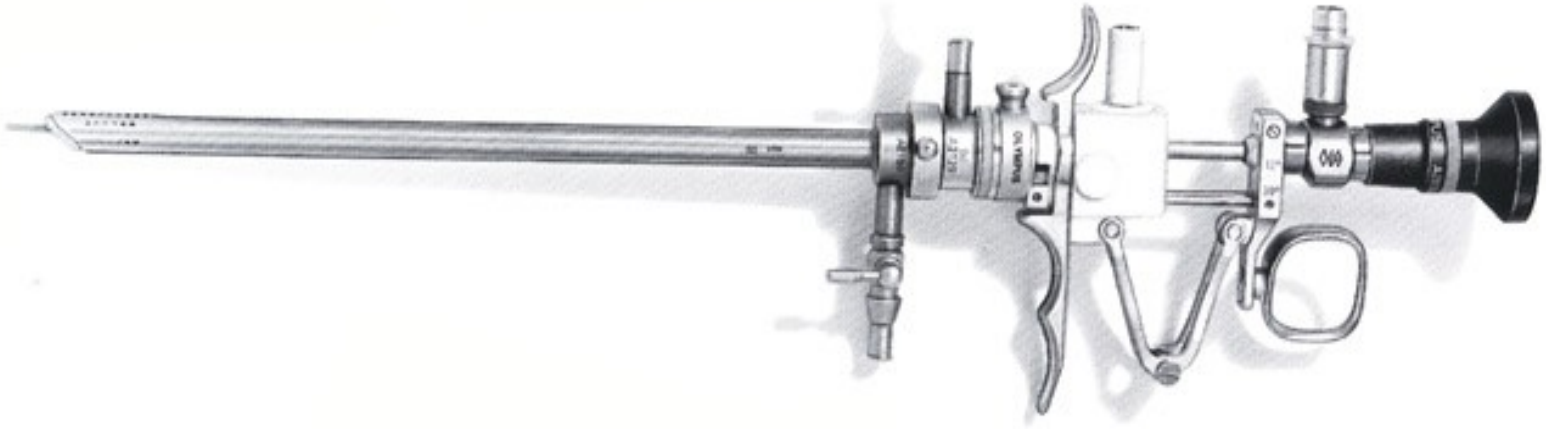

- TUIP
- TULIP
- TUMT
- TUNA
- Stent
- ….




- TUIP
- TULIP
- TUMT
- TUNA
- Stent
- ….

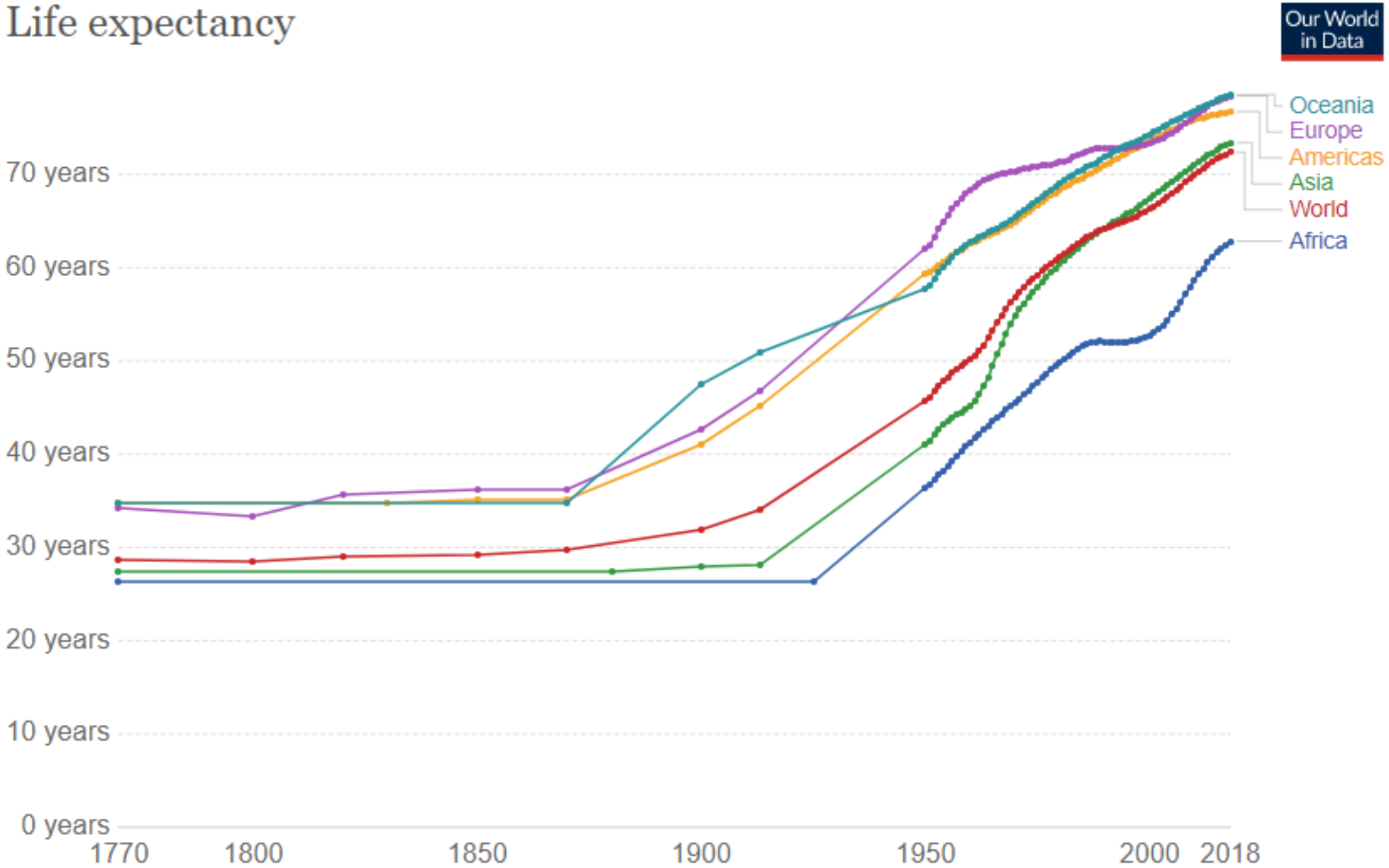
# Trans Urethral Resection of the Prostate





Gold standard

# Life expectancy

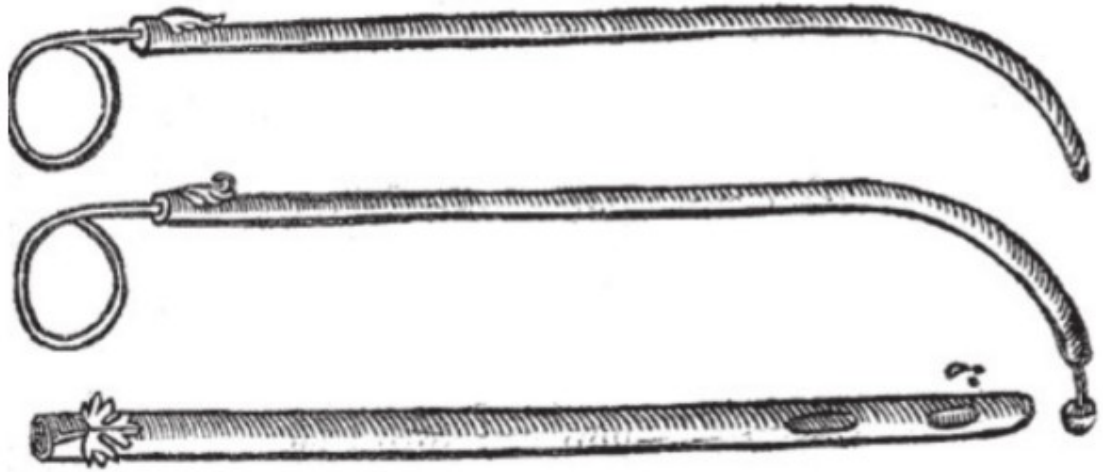



Source: Riley (2005), Clio Infra (2015), and UN Population Division (2019)

OurWorldInData.org/life-expectancy • CC BY

# Punch through prostate opration









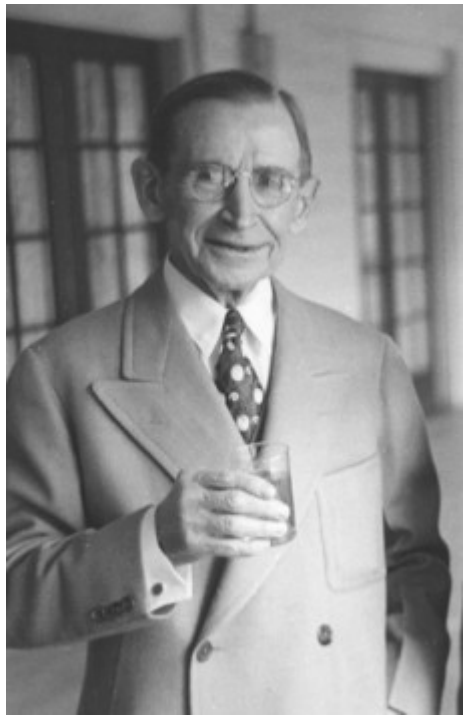
Ambroise Paré 1575

# Maximilian Stern 1926



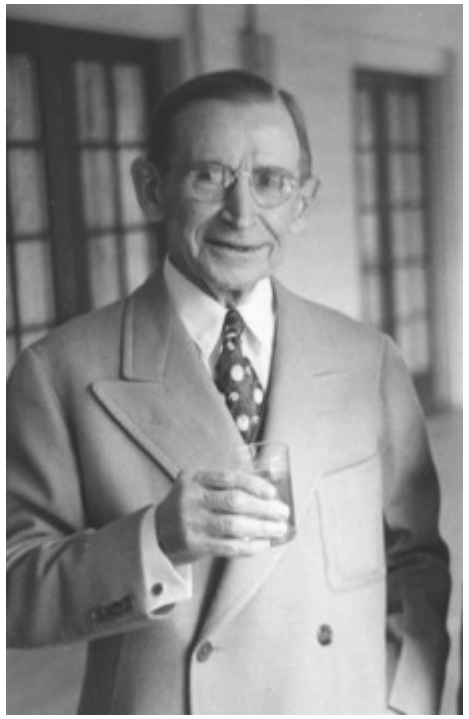


# Alcock - 1932



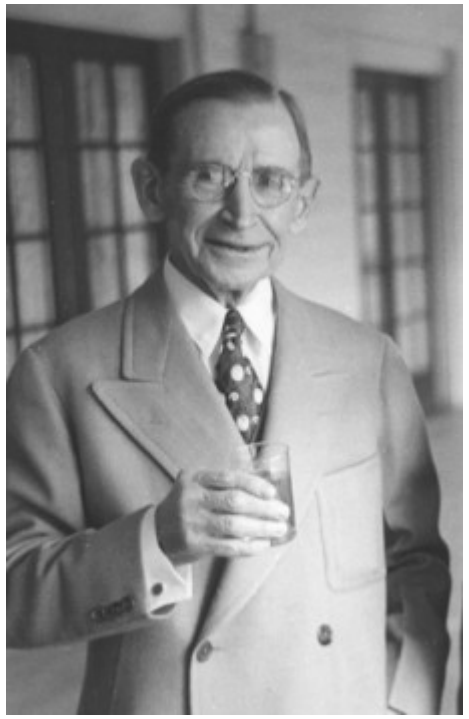
- 175 patients
- 200 resections

# Alcock - 1932



- 175 patients
- 200 resections
- 60% resection of less than 15 gr
- 10 % mortality

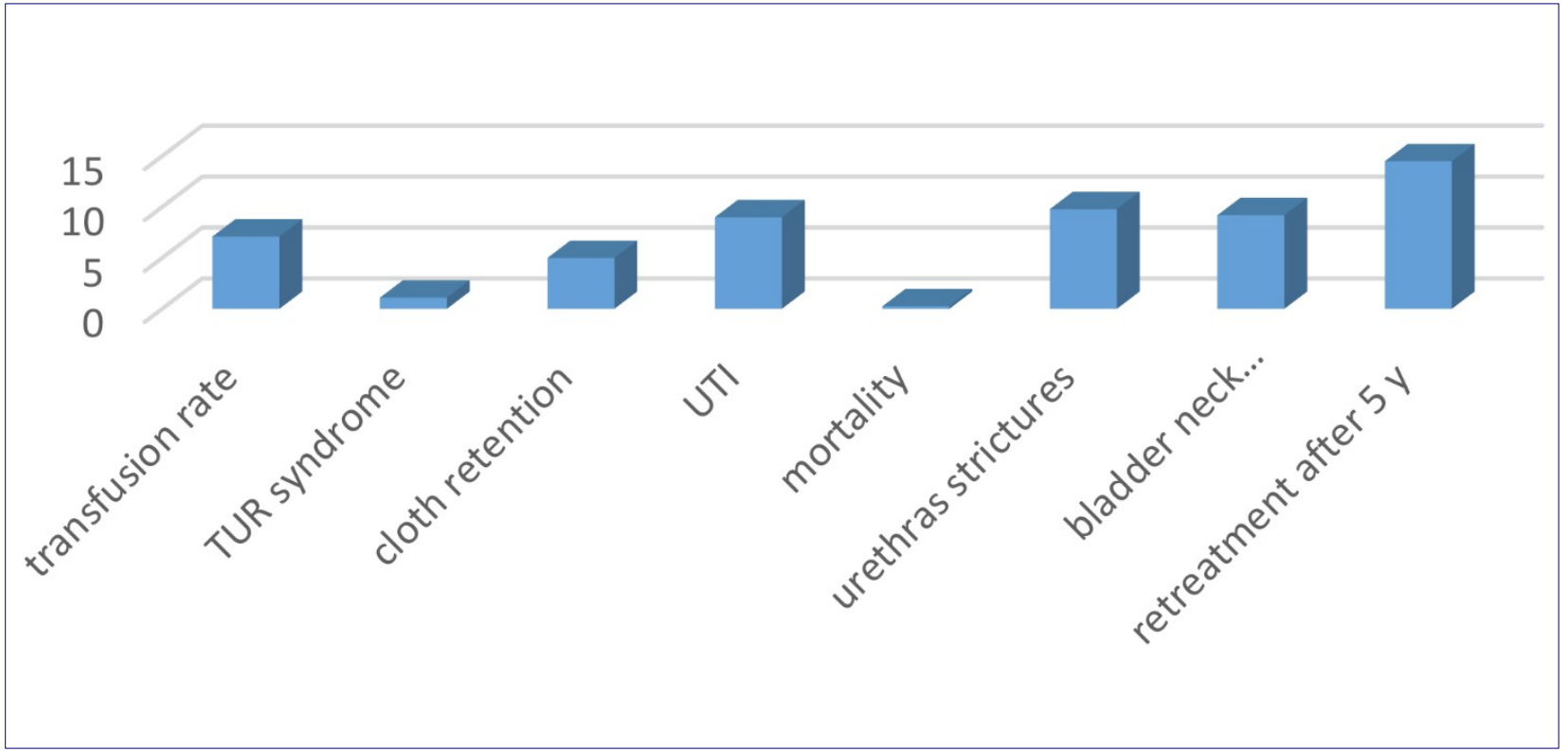
# Alcock - 1932



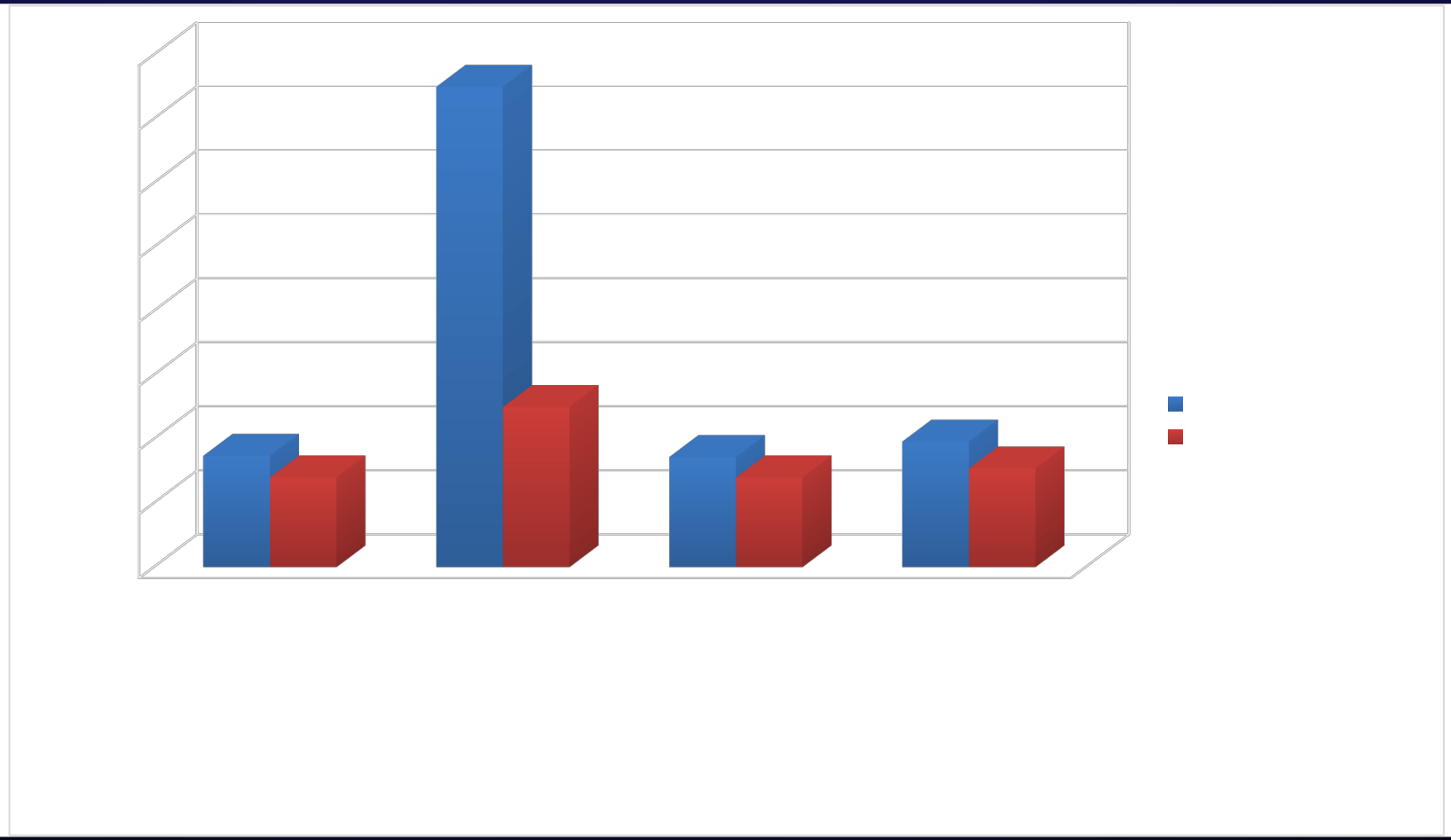
- 175 patients
- 200 resections
- 60% resection of less than 15 gr
- 10 % mortality

“Transurethral resection of the prostate . . .cannot be taught and can be learned only by hard, tedious experience.”

# Trans Urethral Resection of the Prostate



# Trans Urethral Resection of the Prostate



# Bipolaire vs monopolaire TURP

Cochrane Database of Systematic Reviews | Review - Intervention

## Bipolar versus monopolar transurethral resection of the prostate for lower urinary tract symptoms secondary to benign prostatic obstruction

Cameron Edwin Alexander, Malo MF Scullion, Muhammad Imran Omar, Yuhong Yuan, Charalampos Mamoulakis, James MO N'Dow, Changhao Chen, Thomas BL Lam Authors' declarations of interest

Version published: 03 December 2019 Version history

https://doi.org/10.1002/14651858.CD009629.pub4

59 RCTs , 8924 patients

# Bipolaire vs monopolaire TURP

Cochrane Database of Systematic Reviews | Review - Intervention

**Bipolar versus monopolar transurethral resection of the prostate for lower urinary tract symptoms secondary to benign prostatic obstruction**

Cameron Edwin Alexander, Malo MF Scullion, Muhammad Imran Omar, Yuhong Yuan, Charalampos Mamoulakis, James MO N'Dow, Changhao Chen, Thomas BL Lam Authors' declarations of interest

Version published: 03 December 2019 Version history

https://doi.org/10.1002/14651858.CD009629.pub4

- B-TURP - higher safety profile
  - no tur syndrome
  - less bleeding
  - lower clot retention
  - Lower n° blood transfusions
  - shorter irrigation
  - shorter catheterisation
  - shorter hospitalisaton times

59 RCTs , 8924 patients

# TURP meta analysis

RESEARCH

## Comparative efficacy and safety of new surgical treatments for benign prostatic hyperplasia: systematic review and network meta-analysis

Shi-Wei Huang,[1] Chung-You Tsai,[2] Chi-Shin Tseng,[3] Ming-Chieh Shih,[4] Yi-Chun Yeh,[5] Kuo-Liong Chien,[4] Yeong-Shiau Pu,[3] Yu-Kang Tu[4,5]

*bmj*, 2019, 367.

# TURP meta analysis

**Table 1 | Nomenclature of the nine surgical methods of benign prostatic hyperplasia surgery**

| Surgical technique and abbreviation | Surgical method (full terminology) | Energy source | Abbreviation |
|---|---|---|---|
| **Resection** | | | |
| Monopolar TURP | Monopolar transurethral resection of prostate | Monopolar | M-TURP |
| Bipolar TURP | Bipolar transurethral resection of prostate | Bipolar | B-TURP |
| **Enucleation** | | | |
| Thulium LEP | Thulium laser enucleation of prostate | Thulium laser | ThuLEP |
| Holmium LEP | Holmium laser enucleation of prostate | Holmium laser | HoLEP |
| Diode LEP | Diode laser enucleation of prostate | Diode laser | DioLEP |
| Bipolar EP | Bipolar enucleation of prostate | Bipolar | Bipolar TUEP |
| **Vapourisation** | | | |
| Diode LVP | Diode laser vapourisation of prostate | Diode laser | DioLVP |
| KTP LVP | Potassium titanyl phosphate laser vapourisation of prostate | KTP laser | PVP, Greenlight |
| Bipolar VP | Bipolar vapourisation of prostate | Bipolar | Bipolar TUVP |

109 RCT's, 13676 patients

# TURP meta analysis

**Table 1 | Nomenclature of the nine surgical methods of benign prostatic hyperplasia surgery**

| Surgical technique and abbreviation | Surgical method (full terminology) | Energy source | Abbreviation |
|---|---|---|---|
| **Resection** | | | |
| Monopolar TURP | Monopolar transurethral resection of prostate | Monopolar | M-TURP |
| Bipolar TURP | Bipolar transurethral resection of prostate | Bipolar | B-TURP |
| **Enucleation** | | | |
| Thulium LEP | Thulium laser enucleation of prostate | Thulium laser | ThuLEP |
| Holmium LEP | Holmium laser enucleation of prostate | Holmium laser | HoLEP |
| Diode LEP | Diode laser enucleation of prostate | Diode laser | DioLEP |
| Bipolar EP | Bipolar enucleation of prostate | Bipolar | Bipolar TUEP |
| **Vapourisation** | | | |
| Diode LVP | Diode laser vapourisation of prostate | Diode laser | DioLVP |
| KTP LVP | Potassium titanyl phosphate laser vapourisation of prostate | KTP laser | PVP, Greenlight |
| Bipolar VP | Bipolar vapourisation of prostate | Bipolar | Bipolar TUVP |

109 RCT's, 13676 patients

# TURP meta analysis

- Among these new treatments, enucleation methods showed better Qmax and IPSS values than vapourisation and resection methods.

# TURP meta analysis

- Among these new treatments, enucleation methods showed better Qmax and IPSS values than vapourisation and resection methods.

- Eight new endoscopic surgical methods for benign prostatic hyperplasia appeared to be superior in safety compared with monopolar TURP.

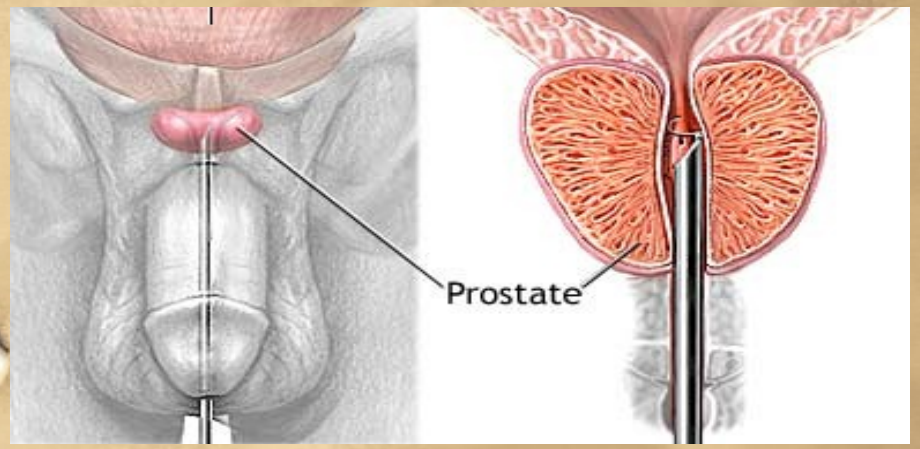
# TURP meta analysis

- Among these new treatments, enucleation methods showed better Qmax and IPSS values than vapourisation and resection methods.

- Eight new endoscopic surgical methods for benign prostatic hyperplasia appeared to be superior in safety compared with monopolar TURP.

- Regarding transurethral resection syndrome, no events were reported in the new methods. Clot retention and blood transfusion events were reported in 57 and 88 trials, respectively. Vapourisation and enucleation methods using either laser or bipolar energy were ranked higher than bipolar TURP, and all performed better than monopolar TURP.

# WANTED




## REWARD

**Dead or Alive**

