



**Evaluation of Urinary, Sexual, Bowel
Functions,
and Quality of Life after Pelvic Surgery**

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Evaluation of Urinary, Sexual, Bowel Functions, and Quality of Life after Pelvic Surgery

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Aim of the Study

➡ The aim of this study is to evaluate urinary, sexual, bowel functions and quality of life after colonic or rectal surgery.

➡ We evaluated these functional problems as regard: sex, age, duration elapsed, type of surgery, neo-adjuvant and adjuvant therapy and the effect of laparoscopic surgery compared to open surgery.

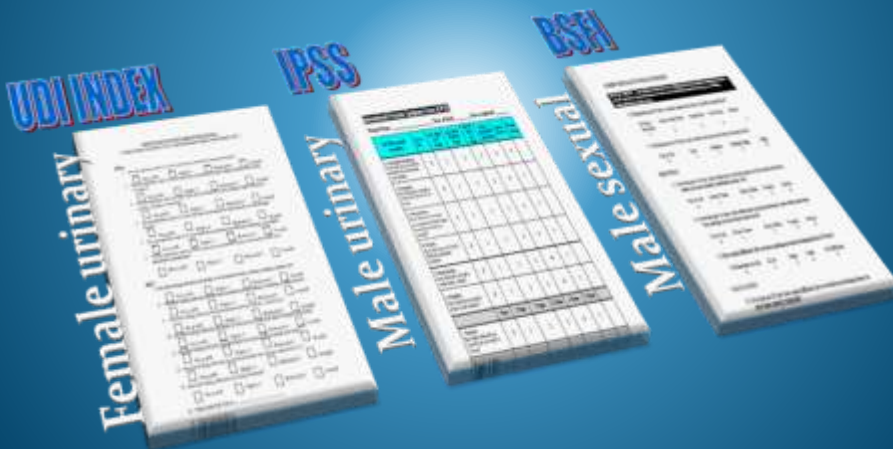
Patients and Methods

This study included (108) patient who performed rectal or colonic surgery for malignant or benign conditions, either done open or laparoscopically.

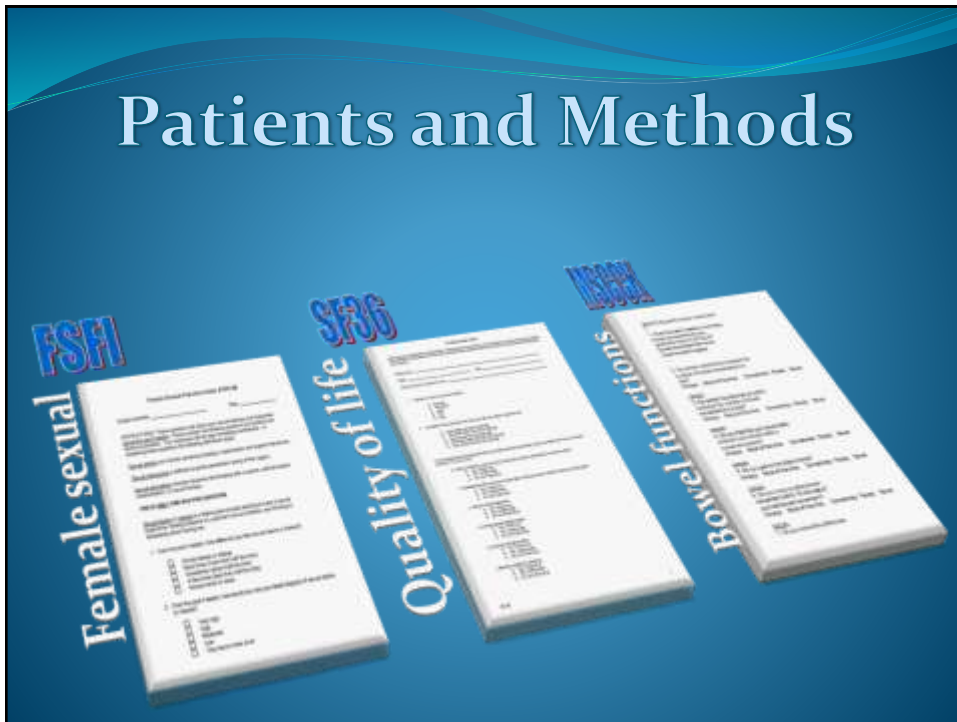


a prospective validated
questionnaires that assess functions
were used.

Patients and Methods



Patients and Methods



Results

| Males | Percentage | Score | P value |
|-------------------------|-------------------|--------------|--------------------|
| Urinary function | | | < 0.001* |
| Not affected | 39(68.4%) | 2.64±2.81 | |
| Affected | 18(31.6%) | 14.55±5.54 | |
| Sexual function | | | < 0.001* |
| Affected | 40(83.3%) | 23±9.95 | |
| Not affected | 8(16.7%) | 37.12±1.55 | |
| Females | | | |
| Urinary function | Percentage | Score | P value |
| Not affected | 44(89.8%) | 2325±464.87 | 0.002* |
| Affected | 5(10.2%) | 5940±1193.41 | |
| Sexual function | | | < 0.001* |
| Not affected | 19(73.1%) | 18.85±6.64 | |
| Affected | 7(26.9%) | 27.6±0.66 | |

Results- Urinary Functions

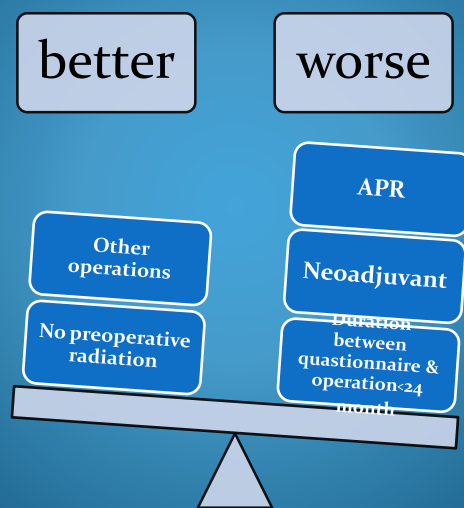
| In males | | Age | | P value |
|------------------|---------------|-----------|-----------|---------|
| Questionnaire | scores | < 55 | ≥ 55 | |
| Urinary function | Urinary total | 6.53±7.27 | 6.06±5.51 | 0.815 |

| In males | | Duration | | P value |
|------------------|---------------|-----------|-----------|---------|
| Questionnaire | scores | < 24 | ≥ 24 | |
| Urinary function | Urinary total | 7.57±8.14 | 5.27±5.01 | 0.204 |

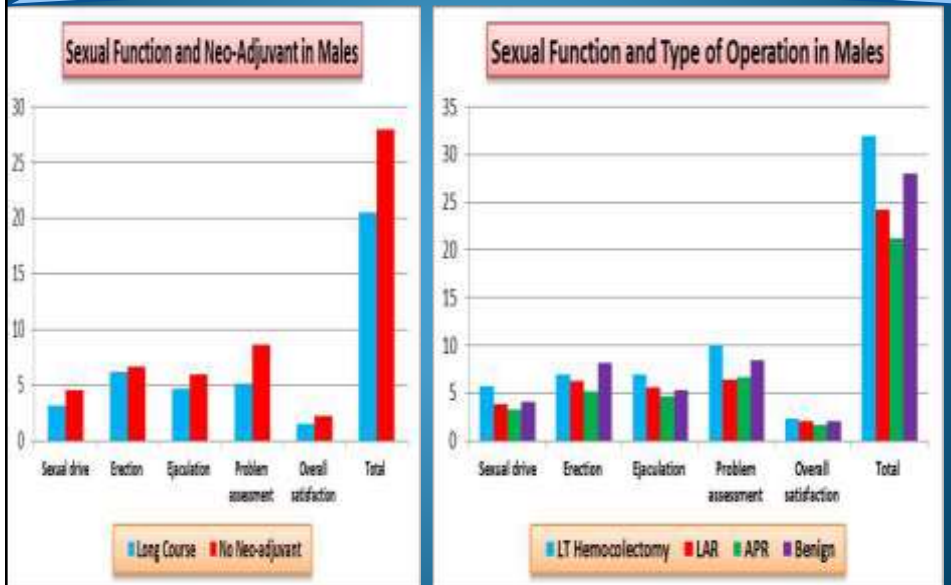
| In males | | Operation | | | | P value |
|------------------|---------------|------------------|-----------|-----------|-----------|---------|
| Questionnaire | Scores | LT hemocolectomy | LAR | APR | Benign | |
| Urinary function | Urinary total | 4.12±5.54 | 6.17±6.29 | 8.16±6.04 | 6.57±8.78 | 0.637 |

| In males | | Neo-adjuvant | | P value |
|------------------|---------------|--------------|-----------|---------|
| Questionnaire | Scores | Long course | No | |
| Urinary function | Urinary total | 7.47±5.82 | 5.56±6.82 | 0.321 |

Results - Urinary Functions



Results- Sexual Function



Results- Multivariate Analysis

However this relations cannot be confirmed due to small sample size (all were of statistically no significance)

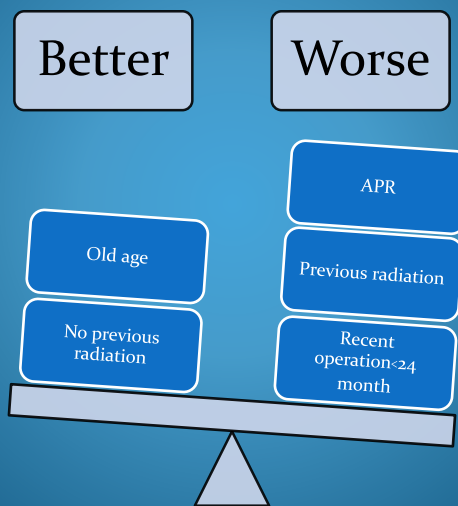
| Risk factors for urinary dysfunction in males | AOR | P-value |
|---|------|---------|
| APR | 1.66 | 0.676 |
| Neo-adjuvant | 1.37 | 0.716 |
| Age | 1.03 | 0.271 |

| Risk factors for sexual dysfunction in males | AOR | P-value |
|--|------|---------|
| Neo-adjuvant | 4.77 | 0.293 |
| Adjuvant TTT | 1.66 | 0.700 |
| Age | 1 | 0.998 |
| duration | 1.01 | 0.579 |

Results – Bowel Functions

| Neo-adjuvant | | P value | |
|----------------|-------------|------------|--------|
| | Long course | No | |
| Bowel function | | | |
| Bowel total | 53.11±8.93 | 58.67±5.53 | 0.004* |

Results – Quality of life



Conclusions



- ✓ It was concluded that age, APR, radiation are risk factors for urinary dysfunction in males and age; neo-adjuvant CRT are the risk factors for sexual dysfunction in male patients. while neo-adjuvant CRT is the main risk for female urogenital dysfunction.
- ✓ No significant differences between the laparoscopic and open rectal resections.
- ✓ Neo-adjuvant CRT is the main risk factors for bowel dysfunctions and bad QOL.

Recommendations

further large prospective studies are needed to clearly define the morbidity and thus allow an accurate discussion with the patients when obtaining informed consent for treatment.

