



Laparoscopic Appendicectomy

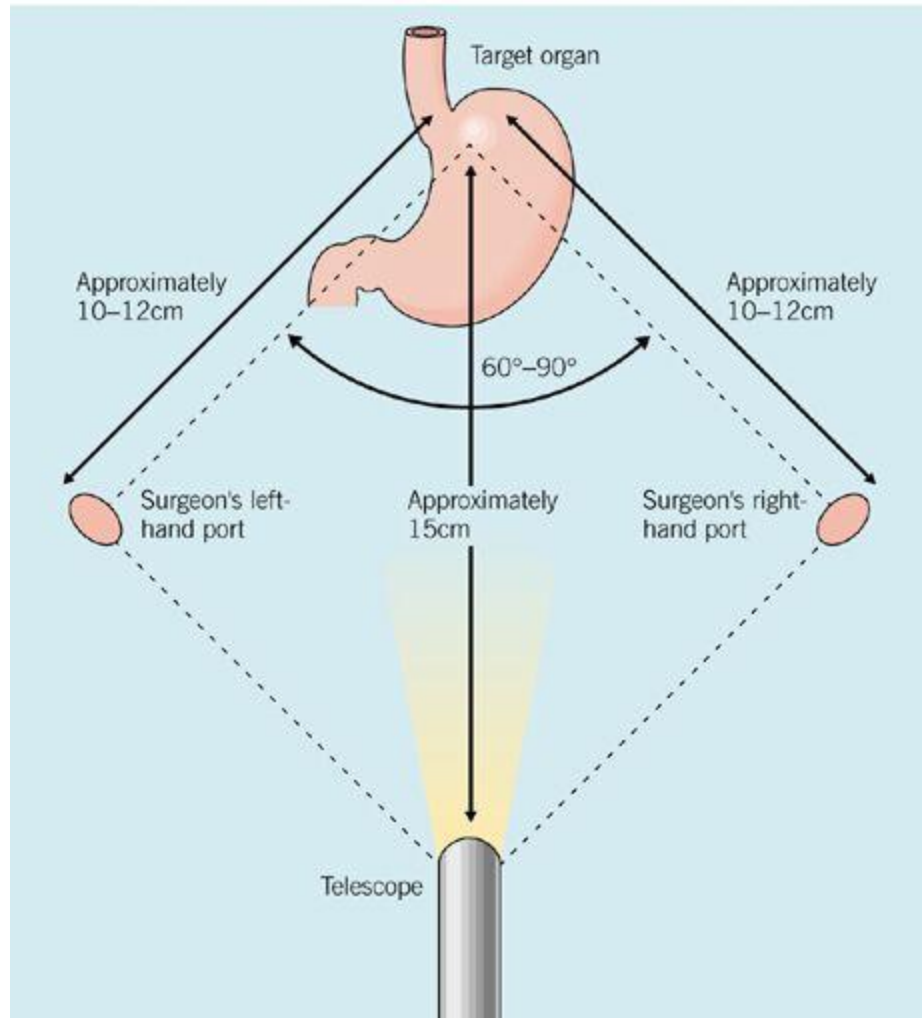
- Particularly useful in women
- Proven in 39 RCTs, >4000 patients
- Halved wound infections, less pain POD1, reduced hospital stay and time to RTW
- 3x postop intraabd. abscesses especially if perforated
- Able to deal with unexpected findings laparoscopically

Table 1 Results of 17 Prospective, Randomized Trials Comparing Laparoscopic Appendectomy with Open Appendectomy

| Study Authors | Procedure | No. of Patients | Negative Appendix [No. (%)] | Conversion to Open Procedure [No. (%)] | Wound Infection [No. (%)] | Intra-abdominal Abscess [No. (%)] | Length of Stay (days) |
|-------------------------|-----------|-----------------|-----------------------------|--|---------------------------|-----------------------------------|-----------------------|
| Attwood ³ | LA | 30 | 5 (16.7) | 2 (6.7) | 0 | 0 | 2.5 |
| | OA | 32 | 1 (3.1) | NA | 1 (3.1) | 0 | 3.8 |
| Tate ⁴ | LA | 70 | 9 (12.9) | 14 (20) | 7 (10) | 1 (1.4) | 3.5 |
| | OA | 70 | 10 (14.3) | NA | 10 (14.3) | 0 | 3.5 |
| Kum ⁵ | LA | 65 | 10 (15.4) | 0 | 0 | 0 | 3.2 |
| | OA | 72 | 11 (15.3) | NA | 5 (6.9) | 0 | 4.2 |
| Frazee ⁶ | LA | 38 | 6 (15.8) | 2 (5.3) | 0 | 0 | 2.0 |
| | OA | 37 | 6 (16.2) | NA | 0 | 0 | 2.8 |
| Ortega ⁷ | LA | 167 | 30 (18) | 11 (6.6) | 4 (2.4) | 6 (3.6) | 2.6 |
| | OA | 86 | 13 (15.1) | NA | 11 (12.8) | 0 | 2.8 |
| Martin ⁸ | LA | 88 | 5 (5.7) | 13 (14.8) | 3 (3.4) | 3 (3.4) | 2.2 |
| | OA | 81 | 18 (22.2) | NA | 6 (7.4) | 3 (3.7) | 4.3 |
| Hansen ⁹ | LA | 86 | 7 (8.1) | 7 (8.1) | 2 (2.3) | 0 | 3.0 |
| | OA | 72 | 16 (22.2) | NA | 8 (11) | 0 | 3.0 |
| Mutter ¹⁰ | LA | 50 | 3 (6) | 6 (12) | 0 | 2 (4) | 4.9 |
| | OA | 50 | 3 (6) | NA | 0 | 0 | 5.3 |
| Cox ¹¹ | LA | 33 | 4 (12.1) | 5 (15.2) | 0 | 0 | 2.9 |
| | OA | 31 | 4 (12.9) | NA | 2 (6.5) | 0 | 3.8 |
| Lejus ¹² | LA | 32 | 5 (15.6) | 0 | 0 | 0 | 3.0 |
| | OA | 31 | 4 (12.9) | NA | 0 | 0 | 3.0 |
| Williams ¹³ | LA | 21 | 5 (23.8) | 2 (9.5) | 1 (4.8) | 0 | 2.4 |
| | OA | 18 | 3 (16.7) | NA | 1 (5.6) | 0 | 2.8 |
| Hart ¹⁴ | LA | 44 | 13 (29.5) | 4 (9.1) | 3 (6.8) | 3 (6.8) | 3.2 |
| | OA | 37 | 7 (18.9) | NA | 3 (8.2) | 0 | 3.0 |
| Reiertsen ¹⁵ | LA | 56 | 14 (25) | 2 (3.6) | 8 (14.3) | 2 (3.6) | 3.5 |
| | OA | 52 | 10 (19.2) | NA | 9 (17.3) | 2 (3.8) | 3.2 |
| Laine ¹⁶ | LA | 25 | 9 (36) | 2 (8) | 1 (4) | 0 | 2.7 |
| | OA | 25 | 7 (28) | NA | 1 (4) | 0 | 2.3 |
| Macarulla ¹⁷ | LA | 106 | 11 (10.4) | 9 (8.5) | 1 (0.9) | 1 (0.9) | 3.4 |
| | OA | 104 | 8 (7.7) | NA | 5 (4.8) | 0 | 4.8 |
| Kazemier ¹⁸ | LA | 97 | 8 (8.2) | 12 (12.4) | 0 | 0 | 3.7 |
| | OA | 104 | 11 (10.6) | NA | 6 (5.8) | 1 (1) | 4.4 |
| Minne ¹⁹ | LA | 27 | 5 (18.5) | 2 (7.4) | 0 | 2 (7.4) | 1.1 |
| | OA | 23 | 2 (8.7) | NA | 0 | 1 (4.3) | 1.2 |
| Total | LA | 1,035 | 149 (14.4) | 93 (9) | 30 (2.9) | 20 (1.9) | 3.0 |
| | OA | 925 | 134 (14.5) | NA | 68 (7.4) | 7 (0.8) | 3.7 |

LA—laparoscopic appendectomy OA—open appendectomy

POSITIONING OF THE OPERATING AND CAMERA PORTS

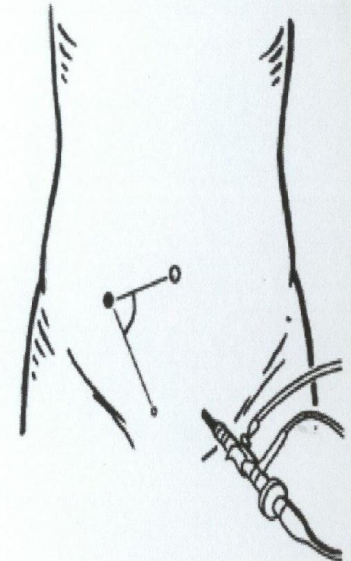
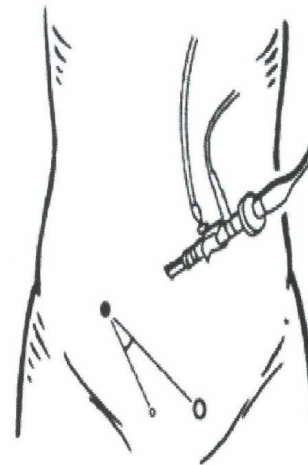
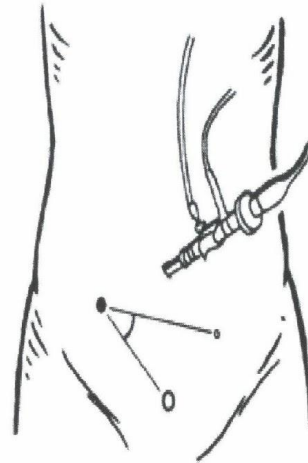
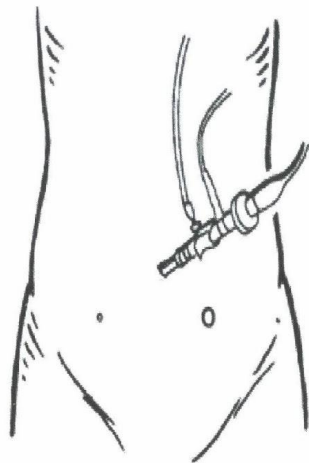


**Technique 1
(standard technique)**

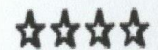
Technique 2

Technique 3

Our technique



Cosmesis



Ergonomics



• 5mm working port

○ 10mm working port

○ 12mm working port

● McBurney's Point

