Table 1

| Year of | Patients, n (%) | Patient age | Primary | Individual | Length of | Conversions, |
|-----------|--|--------------------------|-----------|---|-------------------|--------------|
| operation | | at operation | surgeons, | procedures, n | operation | n (%) |
| | | (years), | n | (%) | (minutes), | |
| | | mean \pm SD | | | mean \pm SD | |
| 2008 | Total: 15 | 71.2 ± 2.1 | 2 | S1: 8 (53.3) | 229.87 ±15.9 | 2 (13.3) |
| | Male: 10 (66.6) | (| | S2: 7 (46.6) | | |
| 2009 | Total: 24 | 67.79 ± 1.7 | 2 | S1: 12 (50.0) | 216.88 ± 10.3 | 3 (12.5) |
| 2010 | Male: $12(50.0)$ | (4.70 ± 0.1) | 2 | S2: 12 (50.0) | 177 70 + 0.2 | 2 (0 7) |
| 2010 | Iotal: 23 | 64.70 ± 2.1 | 2 | S1: 10(43.5) S2: 12(56.5) | $1//.8 \pm 9.3$ | 2 (8.7) |
| 2011 | $\frac{\text{Male: 11}(4/.8)}{\text{Total: 40}}$ | 6751 + 1 4 | 2 | $S_2: 13(30.3)$ | 172 07 + 7 0 | 0 (0 0) |
| 2011 | $M_{a1a}: 18 (36.7)$ | $0/.31 \pm 1.4$ | 3 | S1: 15(20.3) S2: 24(40.0) | $1/3.07 \pm 7.0$ | 0 (0.0) |
| | 1000000000000000000000000000000000000 | | | 32.24(49.0) 53.12(24.5) | | |
| 2012 | Total: 53 | 65 62 +1 3 | 3 | <u>S1: 21 (39.6)</u> | 179.00 + 8.2 | 3 (5 7) |
| 2012 | Male: 25 (47 2) | 05.02 ±1.5 | 5 | S1: 21 (39.0) S2: 23 (43.4) | 179.00 ± 0.2 | 5 (5.7) |
| | (17.2) | | | $S_{2}: 23 (13.1)$ $S_{3}: 9 (13.2)$ | | |
| 2013 | Total: 75 | 68.04 ± 1.0 | 4 | S1: 36 (48.0) | 156.43 ± 5.7 | 7 (9.3) |
| | Male: 38 (50.7) | | | S2: 20 (26.7) | | |
| | | | | S3: 8 (10.7) | | |
| | | | | S4: 11 (14.7) | | |
| 2014 | Total: 97 | 68.04 ± 0.8 | 4 | S1: 34 (35.1) | 157.94 ± 4.6 | 12 (12.4) |
| | Male: 45 (46.4) | | | S2: 21 (21.6) | | |
| | | | | S3: 41 (42.3) | | |
| | | | | S5: 1 (1.0) | | |
| 2015 | Total: 83 | 69.00 ± 0.7 | 5 | S1: 22 (26.5) | 152.60 ± 5.4 | 1 (1.2) |
| | Male: 37 (44.6) | | | S2: 21 (25.3) | | |
| | | | | S3: 27 (32.5) | | |
| | | | | S5: 5(6.0) | | |
| 2016 | Tatal: 122 | ((())) | 5 | S6: 8 (9.6) | 144 70 + 4.0 | 7 (5 7) |
| 2010 | 10tal: 123 Mole: 60 (48.8) | 00.00 ± 0.7 | 3 | S1: 24(19.3) S2: 22(26.0) | $144./0 \pm 4.0$ | 7 (5.7) |
| | Male. 00 (40.0) | | | 32.32(20.0) 53.29(23.6) | | |
| | | | | 55.29(23.0) 55.1(0.8) | | |
| | | | | S6: 37 (30 1) | | |
| 2017 | Total: 130 | 68.74 ± 0.6 | 5 | S1: 39 (30.0) | 135.36 ± 4.2 | 7 (5.4) |
| 2017 | Male: 66 (50.7) | 00171 - 010 | 5 | S2: 25 (19.2) | 100100 - 112 | , (5.1) |
| | | | | S3: 29 (22.3) | | |
| | | | | S5: 8 (6.2) | | |
| | | | | S6: 29 (22.3) | | |
| 2018 | Total: 162 | $\overline{68.69\pm0.7}$ | 5 | S1: 20 (12.3) | 144.78 ± 5.0 | 2 (1.2) |
| | Male: 70 (43.2) | | | S2: 37 (22.8) | | |
| | | | | S3: 41 (25.3) | | |
| | | | | S5: 12 (7.4) | | |
| 2010 | T . 1 1 4 7 | | | S6: 52 (32.1) | 140.00 | |
| 2019 | Total: 145 | 69.95 ± 0.6 | 5 | S1: 22 (15.2) | 148.26 ± 4.1 | 5 (3.4) |
| | Male: 69 (47.6) | | | 83: 51 (35.2) | | |

| | | | | S5: 21 (14.5) | | |
|-------|-----------------|-----------------|---|----------------|------------------|---------|
| | | | | S6: 47 (32.4) | | |
| | | | | S7: 4 (2.8) | | |
| 2020 | Total: 188 | 68.30 ± 0.6 | 5 | S1: 32 (17.0) | 127.76 ± 3.4 | 7 (3.7) |
| | Male: 80 (42.6) | | | S3: 66 (35.1) | | |
| | | | | S5: 32 (17.0) | | |
| | | | | S6: 56 (29.8) | | |
| | | | | S7: 2 (1.1) | | |
| 2021 | Total: 197 | 68.65 ± 0.6 | 8 | S1: 31 (15.7) | 127.39 ± 3.2 | 9 (4.6) |
| | Male: 98 (49.7) | | | S3: 33 (16.8) | | |
| | | | | S5: 33 (16.8) | | |
| | | | | S6: 57 (28.9) | | |
| | | | | S8: 38 (19.3) | | |
| | | | | S9: 3 (1.5) | | |
| | | | | S10: 1 (0.5) | | |
| | | | | S11: 1 (0.5) | | |
| 2022 | Total: 225 | 69.68 ± 0.5 | 9 | S1: 40 (17.8) | 124.85 ± 2.9 | 4 (1.8) |
| | Male: 89 (39.6) | | | S3: 40 (17.8) | | |
| | | | | S5: 43 (19.1) | | |
| | | | | S6: 55 (24.4) | | |
| | | | | S9: 9 (4.0) | | |
| | | | | S10: 8 (3.6) | | |
| | | | | S12: 8 (3.6) | | |
| | | | | S13: 20 (8.9) | | |
| | | | | S14: 1 (0.4) | | |
| 2023* | Total: 118 | 70.05 ± 0.7 | 6 | S1: 22 (18.6) | 122.49 ± 4.2 | 3 (2.5) |
| | Male: 58 (66.6) | | | S3: 25 (21.2) | | |
| | | | | S5: 22 (18.6) | | |
| | | | | S6: 31 (26.3) | | |
| | | | | S13: 14 (11.9) | | |
| | | | | S15: 4 (3.4) | | |

Baseline characteristics of all lung cancer patients undergoing VATS lobectomy between March 3rd, 2008, and July 6th, 2023, at the Department of Cardiothoracic and Vascular Surgery, Aarhus University Hospital (AUH), Denmark, by year of operation. Abbreviations: S = Surgeon; SD = Standard deviation

Table 2

| CDC II (n = 1, 13.%) CDC II (n = 7, 12.%) CDC II (n = 7, 12.%) CDC III (n = 1, 1.%) CDC IIII (n = 1, 1.%) CDC III (n = 1, 1.%) C | C1 postoperative complications before hospital discharge (n = 23, 40.4%) | C1 postoperative complications after hospital discharge (n = 11, 19.3%): |
|---|---|--|
| a. New onset strail fibrillation requiring harmacologic treatment (n = 4) b. Cloatricial defect requiring minor intervention (n = 1) c. Proteomola requiring antibiotic treatment (n = 1) d. Hardmotox requiring thromobylic treatment (n = 1) d. Barbonacc (bleeding requiring existion by VATS (n = 1) b. Ari takage requiring antibiotic treatment (n = 4) CDC Via (n = 4, 7.0%) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) c. Deportative complications requiring thromobylic treatment (n = 1) c. Deportative complications requiring thromobylic treatment (n = 1) c. Deportative complications requiring thromobylic treatment (n = 1) c. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) c. Heartmotoxic sequiring thromobylic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring pharmacologic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) d. Undignosed infection requiring mathibidic treatment (n = 1) <lid. (n="1," 1.3%)<="" li=""></lid.> | CDC II (n = 11, 19.3%) | CDC I (n = 7, 12.3%) |
| Cloc Lills (n = 1, 3, 53%) Choice the equing antibiotic treatment (n = 1) Burner of the experiment of the experiment | a. New onset atrial fibrillation requiring pharmacologic treatment (n = | a. Prolonged pain requiring prolonged need of analgesics (n = 7) |
| b. Cleating and effect requiring minor intervention (n = 1) c. Pretomotiona requiring auticulate trade interfuon (n = 1) d. Hencentorax requiring thromobilitie transment (n = 1) d. Pretomotiona requiring auticulate intervention (n = 1) d. Pretomotiona requiring revision by VATS (n = 1) b. Ar total age and empsymme acquiring revision by VATS (n = 1) c. Hencemtotrax requiring antibiotic treatment (n = 1) CDC IIIs (n = 1, 1, 2%) a. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Ar total age and empsymme acquiring revision by VATS (n = 1) c. Hencemtotrax requiring antibiotic treatment (n = 1) CDC II (n = 1, 1, 2%) a. Intrathoracic bleeding requiring movement restriction (n = 1) c. Hencemtotrax requiring antibiotic treatment (n = 1) d. Material difficultion requiring mathematic treatment (n = 1) d. Material difficultion requiring antibiotic treatment (n = 1) d. Material difficultion requiring antibiotic treatment (n = 1) d. Material difficultion requiring antibiotic treatment (n = 1) d. Material difficultion requiring antibiotic treatment (n = 1) d. Arategre requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by VATS (n = 2) c. Hencemothorax requiring antibiotic treatment (n = 1) c. Cloatical detect requiring minor intervention (n = 1) d. Cloatical detect requiring minor intervention (n = 1) d. Cloatical detect requiring minor intervention (n = 1) d. Material difficultio | 4) | CDC IIIa (n = 3, 5.3%) |
| c. Preumona requiring antibiotic treatment (n = 1) d. Heard Lange (n = 2) DC III (n = 1, 8, 8%) a. Preumothorax requiring extra chest tube insertion (n = 1) b. Crybitchars requiring retaining revision by W35 (n = 1) a. Mechanical ventilation requiring noticit treatment (n = 1) c. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) d. Heard Infibitizion and Links or requiring threatootry (n = 1) c. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) d. Unclaigneed infection requiring antibiotic treatment (n = 1) d. Unclaigneed infection requiring thremboly to treatment (n = 1) d. Unclaigneed infection requiring thremboly to treatment (n = 1) d. Unclaigneed infection requiring thremboly to treatment (n = 1) d. Unclaigneed infection requiring thremboly to treatment (n = 1) d. Unclaigneed infection requiring thremboly to treatment (n = 1) d. Unclaigneed infection requiring mathematic treatment (n = 1) d. Unclaigneed infection requiring mathematic treatment (n = 1) d. Unclaigneed infection requiring intervention (n = 1) d. Unclaigneed infection requiring mathematic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treatment (n = 1) d. Unclaigneed infection requiring mathbolic treat | b. Cicatricial defect requiring minor intervention (n = 1) | a. Pneumothorax requiring admission and chest tube insertion (n = |
| d. Hencethorax requiring thromobytic treatment (n = 1) d. Support the complexities would induce the treatment (n = 1) d. Forein the complexities and the set to be insertion (n = 4) d. The treat age and emprovement requires revision by VMS (n = 1) d. The treat age and emprovement requires the based in equiring revision by VMS (n = 1) d. The treat age and emprovement restriction (n = 1) d. The treat age and emprovement restriction (n = 1) d. The treat age and emprovement restriction (n = 1) d. The treat age and emprovement restriction (n = 1) d. The treat age and emprovement restriction (n = 1) d. Leasion of N. Thoracicus Longus causing movement restriction (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring revision by VMS (n = 2) b. Intrathoracic bleeding requiring revision by VMS (n = 2) b. Intrathoracic bleeding requiring revision by VMS (n = 2) c. Heart affibrillation requiring antibiotic treatment (n = 1) d. Lakage requiring revision by VMS (n = 2) b. Intrathoracic bleeding requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 2) b. Intrathoracic bleeding requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 2) b. Intrathoracic bleeding requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 1) d. Cleart Lakage requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS (n = 1) d. Cleart Lakage requiring revision by VMS (n = 1) c. Cleart Lakage requiring revision by VMS | c. Pneumonia requiring antibiotic treatment (n = 4) | |
| e. Superticial would infection requiring exists ohst tube insertion (n = 1) CDC III (n = -1, 3.5%) a. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) b. Chylotharx requiring treatment (n = 1) c. Hardbanical venitation required (n = 4) CDC IV (n (n = 4, 7.0%)) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) c. Hardbanical venitation required (n = 4) CDC V (n (n = 4, 7.0%)) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) c. Hardbanical venitation required (n = 4) CDC V (n (n = 1, 1.8%)) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) c. Hardbanical venitation for M. Thoracicus Longus causing movement restriction (n = 1) a. New onset strial fibrillation requiring pharmacologic treatment (n = 1) c. Hardbanical venitation requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiotic treatment (n = 1) d. Matchanical venitation requiring antibiot | d. Hemothorax requiring thrombolytic treatment (n = 1) | b. Pleural empyema conservatively treated with antibiotics and |
| CDC IIIIs (n = 7, 3.5%) a. Preumothorax requiring extra chest tube insertion (n = 4) b. Chylothorax requiring extra chest tube insertion (n = 4) b. Arit tackage and empyeme requiring revision by VATS (n = 1) c. Matchinalcal ventilation required (n = 4) CDC IVA (n = 4, 7.0%) a. Machanical ventilation required (n = 4) CDC IVA (n = 4, 7.0%) a. Machanical ventilation required (n = 4) CDC IVA (n = 1, 1.8%) b. Arit tackage and empyeme requiring revision by thoracotomy (n = 1) C2 postoperative complications before hospital discharge (n = 15, 26.3%) CDC I (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) TOC IVA (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) TOC III (n = 8, 1.40) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) CDC III (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) CDC III (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) b. Pneumothorax requiring antibiotic treatment (n = 1) c. Hearnothorax requiring extra chest tube insertion (n = 2) c. Intranstroance bleeding requiring revision by thoracotomy (n = 1) CDC IVA (n = 1, 1.8%) a. Machanical ventilation requiring antibiotic treatment (n = 1) c. Thoisport and treating fibrillation requiring antibiotic treatment (n = 1) c. Intranstroance bleeding requiring revision by thoracotomy (n = 2) b. Undiagnosed infection requiring antibiotic treatment (n = 1) c. Cholecytistis requiring antibiotic treatment (n = 1) c. Cholecytistis requiring antibiotic treatment (n = 1) c. Charticial diffect requiring antibiotic treatment (n = 1) c. Charticial diffect requiring antibiotic treatment (n = 1) <l< td=""><td>e. Superficial wound infection treated with antibiotics (n = 1)</td><td>drainage (n = 2)</td></l<> | e. Superficial wound infection treated with antibiotics (n = 1) | drainage (n = 2) |
| a. Predunctortax requiring extra chest tube insertion (n = 1) b. Chylothorax requiring extra chest tube insertion (n = 1) c. Findunctortax requiring revision by VMS (n = 1) a. Intraharacic bleeding requiring revision by VMS (n = 1) b. Arit eakage and empyome requiring threatment (n = 1) c. The complexitiene complex | CDC IIIa ($n = 5, 8.8\%$) | CDC IIIb ($n = 1, 1.8\%$) |
| D. Chyothys requiring setulations requiring revision by VATS (n = 1) a. Intrathoracic bleading requiring revision by VATS (n = 1) b. Ariteakage and empyrams requiring revision by VATS (n = 1) c. New Analysia (n = 4, 7, 0%) a. Ischemical vertilation required (n = 4) CDC IVb (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) c. Least of the full discharge (n = 15, 26.3%) CDC I (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) c. Tumor infittration in <i>c</i> cause superior requiring performative conversion to thoracotomy (n = 2) c. Tumor infittration in <i>c</i> cause superior requiring performative conversion to thoracotomy (n = 2) c. Tumor infittration in <i>c</i> cause superior requiring admission and minor intervention (n = 1) c. Reinformative complications before hospital discharge (n = 15, 26.3%) c. Cloatricial defect requiring moviment restriction (n = 1) c. Heartothorax requiring antibiotic treatment (n = 1) c. Heartothorax requiring movision by VATS (n = 2) b. Intrathoracic bleading requiring revision by VATS (n = 2) b. Intrathoracic bleading requiring revision by VATS (n = 2) b. Intrathoracic bleading requiring revision by VATS (n = 2) c. Cholecy and the structure (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 6) c. Cholecy and the structure (n = 1) d. Cloatricial defect requiring minor intervention (n = 2) d. Undiagnosed infection requiring antibiotic treatment (n = 6) c. Cholecy and the structure (n = 1) d. Cloatricial defect requiring minor intervention (n = 2) | a. Pneumothorax requiring extra chest tube insertion (n = 4) b. Obulethereu requiring extra chest tube insertion (n = 1) | a. Pheumothorax requiring revision by thoracotomy (n = 1) |
| LDC III (1 = 2, 3, 35%) a. Intrahoracic bleeding requiring revision by VATS (n = 1) b. Air leakage and empyema requiring revision by VATS (n = 1) c. Protoperative complications before hospital discharge (n = 15, 26.3%) CDC II (n = 1, 1.8%) a. Leston of N. Thoracicus Longus causing movement restriction (n = 1) b. Pneumonia requiring antibiotic treatment (n = 1) c. Hearnothorax requiring intromic uning pharmacologic treatment (n = 1) c. Hearnothorax requiring intromic treatment (n = 1) c. Hearnothorax requiring movision by VATS (n = 2) b. Intrahoracic bleeding requiring relations to thoracotomy (n = 1) CDC III (n = 1, 1.8%) a. New onset trial fibrillation requiring antibiotic treatment (n = 1) c. Hearnothorax requiring movision by VATS (n = 2) b. Intrahoracic bleeding requiring relations to thoracotomy (n = 1) CDC III (n = 1, 1.8%) a. Mechanical ventiliation requiring antibiotic treatment (n = 1) c. Hearnothorax requiring matrix requiring antibiotic treatment (n = 1) c. Clastricial defoct requiring matrix (n = 1) c. Clastricial defoct requiring matrix (n = 1) d. Clastricial defoct requiring matrix (n = 1) d. Mechanical ventiliation requiring antibiotic treatment (n = 1) d. Clastricial defoct requiring matrix (n = 1) d. Clastricial defoct requiring matrix (n = 1) d. Clastricial defoct requiring antibiotic treatment (n = 1) d. Clastricial defoct requiring matrix (n = 19, 33.3%); c. Chooperative complications and endoscopic intervention (n = 2) d. Clastricial defoct requiring matrix (n = 1) d. Clastricial defoct requiring matrix (n = 1)<td>b. Chylothorax requiring extra chest tube insertion (n = 1) CDC III. $(n = 2, 2.50/)$</td><td>Patients reporting >2 postoparative complications requiring treatment: 10</td> | b. Chylothorax requiring extra chest tube insertion (n = 1) CDC III. $(n = 2, 2.50/)$ | Patients reporting >2 postoparative complications requiring treatment: 10 |
| a. Machinal vertical base of equing requiring revision by thoracotomy (n = 7). b. Aria fieldage and emperative provision by thoracotomy (n = 4). CDC IVA (n = 4, 7,0%) a. Machinal vertilation requiring in chronic unitateral hypotonia (n = 1) c. Ischemical vertilation requiring in chronic unitateral hypotonia (n = 1) c. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) d. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) d. Mack wonset atrial fibrillation requiring pharmacologic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by VATS (n = 1) CDC III (n = 1, 1.8%) a. Aracomical vertilation requiring pharmacologic treatment (n = 4) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring pharmacologic treatment (n = 1) d. Licakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC III (n = 1, 1.8%) a. Mechanical vertilation requiring pharmacologic treatment (n = 6) c. Choice the stage requiring revision by thoracotomy (n = 1) d. Clicatricial defect requiring antibiotic treatment (n = 1) d. Clicatricial defect requiring minor intervention (n = 2) b. Intrathoracic bleeding requiring pharmacologic treatment (n = 6) c. Choice stile sequiring antibiotic treatment (n = 6) c. Choice stile sequiring antibiotic treatment (n = 1) c. Cloatricial defect requiring pharmacologic treatment (n = 1) d. Cleatricial defect requiring minor intervention (n = 2) b. Undiagnosed infection requiring pharmacologic t | CDC III0 (II = 2, 5.5%) a Intrathoracic bleeding requiring revision by VATS ($n = 1$) | 1 unemis reporting ≤ 2 possoperative complications requiring treatment. 1) |
| CDC P(x) (n = 4, 70%) a. Mechanical ventilation required (n = 4) CDC P(x) (n = 1, 1.8%) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) c. Turnor infittration in v. cava superior requiring perioperative conversion to thoracotomy (n = 1) C2 postoperative complications before hospital discharge (n = 15, 26, 3%) c. Turnor infittration in v. cava superior requiring perioperative complications after hospital discharge (n = 12, 21.1%) a. New onset attial fibrillation requiring pharmacologic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring existion by VATS (n = 2) b. Intrationacic bieding requiring revision by VATS (n = 2) b. Undiagnosed infection requiring pharmacologic treatment (n = 2, 3.5%) a. New onset attrial fibrillation requiring harmacologic treatment (n = 2, 3.5%) a. Mechanical ventilation requiring harmacologic treatment (n = 1) c. How onset attrial discharge (n = 19, 33.3%): a. New onset attrial fibrillation requiring harmacologic treatment (n = 2) c. Chartical defect requiring minor intervention (n = 2) b. Intrationacic ventiling pharmacologic treatment (n = 1) c. Chartical defect requiring minor intervention (n = 2) c. Chortical defect requiring pharmacologic treatment (n = 1) d. Cicatricial defect requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring pharmacologic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) d. Mechanical ventilation requiring pharmacologic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) d. Cicatricial defect r | a. Initiationable bleeding requiring revision by VAIS (ii = 1) b. Air leakage and emplement requiring revision by thoracotomy $(n = 1)$ | C1 perioperative conversions to thoracotomy $(n = 7, 12.3\%)$: |
| 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4 | $CDC W_2 (n = 4.7.0\%)$ | a. Perioperative bleeding requiring conversion to thoracotomy (n = |
| CDC IVb (n = 1, 1.8%) a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) b. Anatomical difficulties around blood vessels requiring perioperative conversion to thoracotomy (n = 2) c. Tumor infittation in v. cave superior requiring perioperative conversion to thoracotomy (n = 1) C2 postoperative complications after hospital discharge (n = 15, 26.3%) CDC I (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) f. (n = 8, 14.0) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) c. Hemothorax requiring minor intervention (n = 1) c. Hemothorax requiring minor intervention (n = 1) c. Cleatricial defect requiring minor intervention (n = 1) c. Cleatricial defect requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring notiotic treatment (n = 1) a. Ari leakage requiring revision by VATS (n = 2) b. Incomplete resection requiring notiotic treatment (n = 1) c. Cholocystitis requiring antibiotic treatment (n = 1) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 2) c. Cholocystitis requiring antibiotic treatment (n = 1) d. Cocatricial defect requiring minor intervention (n = 2) d. Undiagnosed infection requiring pharmacologic treatment (n = 2) d. Cocatricial defect requiring minor intervention (n = 2) d. Undiagnosed infection requiring pharmacologic treatment (n = 1) d. Cocatricial defect requiring antibiotic treatment (n = 1) d. Cocatricial defect requiring minor intervention (n = 2) d. Undiagnosed infection requiring pharmacologic treatment (n = 1) d. Cholocystitis requiring antibiotic t | a Mechanical ventilation required $(n = 4)$ | 4) |
| a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) b. Chromer infiltration in v. cave superior requiring perioperative conversion to thoracotomy (n = 2) c. Tumor infiltration in v. cave superior requiring perioperative conversion to thoracotomy (n = 1) C. De toperative complications after hospital discharge (n = 12, 21.1%) C. De toperative complications after hospital discharge (n = 12, 21.1%) C. De toperative complications after hospital discharge (n = 12, 21.1%) C. De toperative complications after hospital discharge (n = 12, 21.1%) C. De toperative complications after hospital discharge (n = 12, 21.1%) C. De toperative conversion to thoracotomy (n = 1) C. Hemothorax requiring thoribotic treatment (n = 1) C. Hemothorax requiring minor intervention (n = 1) C. Hemothorax requiring existion by VATS (n = 2) D. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) C. De trial conversions to thoracotomy (n = 3) Mechanical ventilation requiring pharmacologic treatment (n = 6) C. Cheoretic meaning minor intervention (n = 2) C. Tho (n = 1, 1.8%) Mechanical ventilation requiring thatispicit (n = 1) C. De toperative conversions to thoracotomy (n = 3, 5.3%); Mechanical ventilation requiring pharmacologic treatment (n = 1) C. Cheoretic meaning minor intervention (n = 2) C. De under the spital discharge (n = 19, 33.3%); C. Conting antibiotic treatment (n = 1) C. Cheoretic explicing minor intervention (n = 2) D. Undiagnosed infection requiring pharmacologic treatment (n = 1) C. Cheoretic explicing minor intervention (n = 2) D. Undiagnosed infection requiring pharmacologic treatment (n = 1) C. Cheoretic expliciting antibiotic treatment (n | CDC IVb $(n = 1, 1.8\%)$ | b. Anatomical difficulties around blood vessels requiring |
| c. Turmor influtation in v. cava superior requiring perioperative complications defore hospital discharge (n = 15, 26.3%) C. 2 postoperative complications before hospital discharge (n = 15, 26.3%) C. 1 (n = -1, 1.8%) a. Lession of N. Thoracicus Longus causing movement restriction (n = 1) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) b. Pneumotinar requiring retuining intributic treatment (n = 1) c. Hemothorax requiring retuining intributic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring minor intervention (n = 1) d. Undiagnosed infection requiring intributic treatment (n = 1) d. Undiagnosed infection requiring revision by VATS (n = 2) b. Intrathoracic beging requiring revision by thoracotomy (n = 1) d. Undiagnosed infection requiring numboly thoracotomy (n = 1) d. Air leakage requiring revision by VATS (n = 2) b. Intrathoracic beging requiring revision by thoracologic treatment (n = 1) d. Cloatticial discharge (n = 19, 33.3%): a. Mechanical ventilation requiring pharmacologic treatment (n = 2) d. Cloatticial difficulties requiring remineration (n = 2) d. Charticial difficulties requiring requiring revision by thoracologic treatment (n = 1) d. Cloatticial defect requiring numbolic treatment (n = 1) d. Cloatticial defect requiring numbolic treatment (n = 1) d. Cloatticial defect requiring numbolic treatment (n = 1) d. Cloatticial defect requiring numbolic treatment (n = 2) d. Michanical ventiliation requiring numbolic treatment (n = 1) d. Cloatticial defect requiring numbolic treatment (n = 2) d. Michanical ventiliation requiring numbolic treatment (n = 1) d. Cloatticial d | a. Ischemic stroke resulting in chronic unilateral hypotonia (n = 1) | perioperative conversion to thoracotomy $(n = 2)$ |
| C2 postoperative complications before hospital discharge (n = 15, 26.3%) CDC 1 (n = 1, 1.8%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) 1) CDC 1 (n = -5, 8.4%) a. New onset atrial fibrillation requiring antibiotic treatment (n = 1) c. Hemothorax requiring antibiotic treatment (n = 1) c. Hemothorax requiring antibiotic treatment (n = 1) c. Undiagnosed infection requiring antibiotic treatment (n = 1) c. Undiagnosed infection requiring extra chest tube insertion (n = 2) DCD III (n = 1, 1.8%) a. Ar leakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC IWa (n = 1, 1.8%) a. Mechanical ventilation requiring harmacologic treatment (n = 2) c. Clastricial defect requiring invision by VATS (n = 2) b. Mechanical ventilation requiring notion by VATS (n = 1) CDC III (n = 1, 1.8%) a. Mechanical ventilation requiring pharmacologic treatment (n = 1) CDC III (n = 1, 1.8%) a. Mechanical ventilation requiring pharmacologic treatment (n = 1) CDC III (n = 1, 1.8%) a. Mechanical ventilation requiring pharmacologic treatment (n = 1) CDC III (n = 1, 1.8%) a. Mechanical ventili fibrillation requiring pharmacologic tre | | c. Tumor infiltration in v. cava superior requiring perioperative |
| C2 postoperative complications before hospital discharge (n = 15, 26.3%) C2 postoperative complications after hospital discharge (n = 12, 21.1%) CDC I (n = 1, 18%) a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) DC I (n = 1, 1.4%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) b. Pneumonia requiring antibiotic treatment (n = 1) c. Hemothorax requiring miniotic it treatment (n = 1) d. Undiagnosed infection requiring minibiotic treatment (n = 1) DC IIIs (n = 2, 3.5%) a. Ari teakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring pharmacologic treatment (n = 1) c. Creatricial diffect requiring minibiotic treatment (n = 1) d. Undiagnosed infection requiring newsion by thoracotomy (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) c. Cholecystitis requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring pharmacologic treatment (n = 2) DC III (n = 1, 2, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) c. Cholecystitis requiring numbro intervention (n = 2) d. Undiagnosed infection requiring pharmacologic treatment (n = 1) d. Undiagnosed infection requiring numbro intervention (n = 2) b. Undiagnosed infection requiring antibiotic treatment (n = 1) c. Cholecystitis requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. | | conversion to thoracotomy (n = 1) |
| CDC I (n = 1, 1.8%) CDC I (n = 3, 1.4%) CDC I (n = 5, 8.8%) CDC I (n = 1, 1.8%) CDC II (n = 2, 3.5%) CDC | C2 postoperative complications before hospital discharge ($n = 15, 26.3\%$) | C2 postoperative complications after hospital discharge (n = 12, 21.1%) |
| a. Lesion of N. Thoracicus Longus causing movement restriction (n = 1) b. Preumothorax requiring antibiotic treatment (n = 1) c. Hermothorax requiring mibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) e. Cleatricial defect requiring mibiotic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) e. Cleatricial defect requiring mibiotic treatment (n = 1) d. Undiagnosed infection requiring extra chest tube insertion (n = 2) c. Thermothorax requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) c. Air leakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring trevision by thoracotomy (n = 1) c. Corrective complications before hospital discharge (n = 19, 33.3%): c. Contecystitis requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) c. Cholecystitis requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) b. Undiagnosed infection requiring pharmacologic treatment (n = 1) c. Contecystitis requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requiring mibiotic treatment (n = 1) d. Cicatricial defect requirin | CDC I (n = 1, 1.8%) | CDC I (n = 5, 8.8%) |
| 1) CDC III (n = 8, 14.0) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) c. Hemothorax requiring thromobytic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) e. Cleatricial defect requiring minor intervention (n = 1) d. Undiagnosed infection requiring extra chest tube insertion (n = 2) cDC IIIa (n = 2, 3.5%) a. Mechanical ventilation requiring revision by thoracotomy (n = 1) CD C IIa (n = 1, 1.8%) a. Air teakage requiring revision by thoracotomy (n = 1) cDC III (n = 1, 1.8%) a. Mechanical ventilation requiring thermacologic treatment (n = 1) cDC III (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 6) c. Cholecystitis requiring minor intervention (n = 2) b. Undiagnosed infection requiring pharmacologic treatment (n = 1) cDC IIIb (n = 2, 3.5%) a. New onset atrial fibrillation requiring thermacologic treatment (n = 1) cDC III (n = 12, 21.1%) a. New onset atrial fibrillation requiring antibiotic treatment (n = 1) c) Cloc III (n = 12, 5.3%) b. Undiagnosed infection requiring antibiotic treatment (n = 1) c) Cloc III (n = 2, 3.5%) a. New onset atrial fibrillation requiring nantiportie treatment (n = 1) c) Cloc III (n = 2, 3.5%) b. Undiagnosed infection requiring antibiotic treatment (n = 1) c) Cloc IIII (n = 2, 3.5%) c) Cloc IIIb (n = 2, 3.5%) a. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) c) Cloc IIIb (n = 2, 3.5%) a. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) b. Pleural effusion requiring pharmacologic treatment (n = 1) c) Cloc IIIb (n = 2, 3.5%) a. New siste adhesions requiring admission and endoscopic intervention (n = 2) c) Cloc IIIb (n = 2, 3.5%) <li< td=""><td>a. Lesion of N. Thoracicus Longus causing movement restriction (n =</td><td> Prolonged pain requiring prolonged need of analgesics (n = 6) </td></li<> | a. Lesion of N. Thoracicus Longus causing movement restriction (n = | Prolonged pain requiring prolonged need of analgesics (n = 6) |
| CDC III (n = 8, 14.0) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) b. Pneumothorax requiring antibiotic treatment (n = 1) c. Hermothorax requiring minor intervention (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) d. Undiagnosed infection requiring minor intervention (n = 1) d. Undiagnosed infection requiring attributic treatment (n = 1) d. Undiagnosed infection requiring extra chest tube insertion (n = 2) D. Intrathoracic bleeding requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring entibiotic treatment (n = 1) CDC III (n = 12, 21.1%) CDC III (n = 2, 3.5%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 6) c. Cholecystitis requiring antibiotic treatment (n = 1) CDC IIIb (n = 2, 3.5%) a. Neumothorax requiring pharmacologic treatment (n = 1) CDC IIIb (n = 2, 3.5%) a. Neumothorax requiring revision by thoracotomy (n = 1) b. Pleural effusion requiring pharmacologic treatment (n = 1) CDC IIIb (n = 2, 3.5%) a. Neumothorax requiring pharmacologic treatment (n = 1) CDC IIIb (n = 2, 3.5%) a. Inteakage requiring revision by thoracotomy (n = 1) | 1) | CDCII ($n = 1, 1.8\%$) |
| a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) b. Pneumonia requiring antibiotic treatment (n = 1) c. Hemothorax requiring thrombolytic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) c. Cleatricial defect requiring minor intervention (n = 2) d. Intrathoracic bleeding requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC III (n = 3, 5.3%) a. Mechanical ventilation required (n = 1) CD2 IVa (n = 1, 1.8%) a. Mechanical ventilation requiring thistic treatment (n = 1) CD2 II (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) c. Cholecystils requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) b. Undiagnosed infection requiring pharmacologic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) b. Undiagnosed infection requiring pharmacologic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) c. Cholecystils requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) e. Lung emblism requiring pharmacologic treatment (n = 1) b. Pleural effusion requiring hearmacologic treatment (n = 1) c. Clill (n = 2, 3.5%) a. A releakage requiring revision by thoracotomy (n = 1) b. Pleural effusion requiring treatment: 2 c. The leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) | CDC II $(n = 8, 14.0)$ | a. Cicatricial defect requiring admission and minor intervention (n = |
| 1) b. Pneumonia requiring antibiotic treatment (n = 1) c. Hemothorax requiring thrombolytic treatment (n = 1) d. Undiagnosed infection requiring extra chest tube insertion (n = 2) DCI UII (n = 1, 1.8%) a. Air leakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): CDC III (n = 12, 21.1%) a. We conset atrial fibrillation requiring pharmacologic treatment (n = 4) c. Cholecystilis requiring antibiotic treatment (n = 1) c. Cholecystilis requiring minor intervention (n = 2) c. Cholecystilis requiring antibiotic treatment (n = 1) c. Thereare trial fibrillation requiring harmacologic treatment (n = 1) c. Cholecystilis requiring ninor intervention (n = 2) c. Cholecystilis requiring ninor intervention (n = 1) c. Cholecystilis requiring ninor intervention (n = 2) c. Lung embolism requiring pharmacologic treatment (n = 1) c. The leakage requiring revision by thoracotomy (n = 1) d. Rieakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by thoracotomy (n = 1) d. I teakage requiring revision by VATS (n = 1) d. I teakage requiring revision by | a. New onset atrial fibrillation requiring pharmacologic treatment (n = | 1) |
| b. Pneumonia requiring antibiotic treatment (n = 1) c. Hemothorax requiring thrombolytic treatment (n = 1) d. Undiagnosed infection requiring antibiotic treatment (n = 1) e. Cleatricial defect requiring minor intervention (n = 1) CDC IIIb (n = 2, 3.5%) a. Pneumothorax requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC IVa (n = 1, 1.8%) a. Mechanical ventilation required (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): c. Cholecystilis requiring antibiotic treatment (n = 6) c. Cholecystilis requiring minor intervention (n = 2) c. Cluatifies requiring minor intervention (n = 2) c. Cholecystilis requiring minor intervention (n = 2) c. Cluatifies requiring minor intervention (n = 1) c. Cholecystilis requiring minor intervention (n = 2) c. Cluatifies requiring minor intervention (n = 2) c. Cluatifies requiring minor intervention (n = 2) c. Cluatifies requiring neurodesis and/or extra chest tube insertion (n = 2) c. Define (n = 2, 3.5%) a. Interathoracio bleeding requiring revision by VATS (n = 1) b. Intrathoracio bleeding requiring revision by VATS (n = 1) b. Intrathoracio bleeding requiring revision by VATS (n = 1) c. Cluatifies requiring revision by VATS (n = 1) c. Cholecystilis requiring revision by VATS (n = 1) c. Cluatifies reporting by thoracotomy (n = 3) d. I leavage requiring revision by thoracotomy (n = | 1) | CDC IIIa $(n = 4, 7.0\%)$ |
| c. Hemothorax requiring thrombolytic treatment (n = 1) d. Undiagnosed infection requiring minor intervention (n = 1) CDC IIIa (n = 2, 3.5%) a. Air leakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC IVa (n = 1, 1.8%) a. Mechanical ventilation required (n = 1) CDC IIIa (n = 12, 2.1.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 2) b. Undiagnosed infection requiring antibiotic treatment (n = 1) CDC IIIa (n = 5, 8.8%) a. Pneumothorax requiring revision by thoracotomy (n = 1) CDC IIIa (n = 2, 3.5%) a. New onset atrial fibrillation requiring harmacologic treatment (n = 1) CDC IIIa (n = 5, 8.8%) a. Pneumothorax requiring extra chest tube insertion (n = 2) CDC IIIIa (n = 2, 3.5%) a. Neuromothorax requiring extra chest tube insertion (n = 2) b. Undiagnosed infection requiring harmacologic treatment (n = 1) CDC IIIa (n = 5, 8.8%) a. Pneumothorax requiring revision by thoracotomy (n = 1) CDC IIIb (n = 2, 3.5%) a. Neuromothorax requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) c. Thologic prative conversions to thoracotomy (n = 2, 3.5%) c. Cholecystitis requiring theoremet (n = 1) c. Cholecystitis requiring theoremet (n = 1) c. Cholecystitis requiring harmacologic treatment (n = 1) c. Cholecystitis requiring harmacologic treatment (n = 1) c. Cholecystitis requiring theoremet (n = 1) d. Cleatricial defect requiring minor intervention (n = 2) c. Lung emblication requiring theoremet (n = 1) c. Cholecystitis requiring theoremet (n = 1) d. Cleatr | Pneumonia requiring antibiotic treatment (n = 1) | a. Pneumothorax or pleural effusion requiring admission and chest |
| d. Undiagnosed infection requiring antibiotic treatment (n = 4) e. Cicatricial defect requiring minor intervention (n = 1) CDC IIIa (n = 2, 3.5%) a. Pneumothorax requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by VATS (n = 1) CDC IVa (n = 1, 1.8%) a. Mechanical ventilation required (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): CDC II (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) CDC III (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) CDC III (n = 5, 8.8%) a. Pneumothorax requiring pharmacologic treatment (n = 1) CDC IIIIa (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) C2 perioperative complications after hospital discharge (n = 19, 33.3%): CDC III (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 1) CDC III (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) CDC IIII (n = 2, 3.5%) a. Air leakage requiring pervision by thoracotomy (n = 1) DCD IIII (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) c) CDC IIIb (n = 2, 3.5%) a. Air leakage requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) c) Reduced overview requiring perioperative conversion to thoracotomy (n = 2) c) Reduced overview requiring perioperative | c. Hemothorax requiring thrombolytic treatment (n = 1) | tube insertion (n = 3) |
| e. Cleatricial defect requiring minor intervention (n = 1) CDC IIIa (n = 2, 3.5%) a. Pneumothorax requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC IIA (n = 1, 1.8%) a. Mechanical ventilation required (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): CDC III (n = 12, 2.1.1%) a. New onset atrial fibrillation requiring minor intervention (n = 2) b. Undiagnosed infection requiring minor intervention (n = 2) c. Cholecystitis requiring minor intervention (n = 2) e. Lung embolism requiring pharmacologic treatment (n = 1) CDC III (n = 2, 3.5%) a. Preumothorax requiring theractogic treatment (n = 1) CDC IIIa (n = 5, 8.8%) a. Pneumothorax requiring theractogic treatment (n = 1) c. Cholecystitis requiring minor intervention (n = 2) e. Lung embolism requiring pharmacologic treatment (n = 1) c. Cholecystitis requiring minor intervention (n = 2) c. Lung embolism requiring pharmacologic treatment (n = 1) c. Cholecystitis requiring minor intervention (n = 2) d. Cicatricial defect requiring minor intervention (n = 2) e. Lung embolism requiring pharmacologic treatment (n = 1) c. Cholecystitis requiring therations (n = 3) b. Pleural effusion requiring therat chest tube insertion (n = 2) c. Cholecystitis requiring therations (n = 3) b. Pleural effusion requiring perioperative conversions to thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) c. Reduced overview requiring perioperative conversion to thoracotomy (n = 2) c. Reduced overview requiring perioperative conversion to thoracotomy | Undiagnosed infection requiring antibiotic treatment (n = 4) | b. Pleural empyema conservatively treated with antibiotics and |
| CDC IIIIs (n = 2, 3.5%) a. Pneumothorax requiring extra chest tube insertion (n = 2) CDC IIIIs (n = 3, 5.3%) a. Air leakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC IVA (n = 1, 1.8%) a. Mechanical ventilation required (n = 1) a. Mechanical ventilation required (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): CDC III (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 2) b. Undiagnosed infection requiring antibiotic treatment (n = 6) c. Cholecystitis requiring minor intervention (n = 2) e. Lung embolism requiring pharmacologic treatment (n = 1) CDC IIIa (n = 5, 8.8%) a. Pneumothorax requiring theurodesis and/or extra chest tube insertion (n = 2) CDC III (n = 2, 3.5%) a. Pneumothorax requiring treatment (n = 1) CDC III (n = 2, 3.5%) a. Pneumothorax requiring pharmacologic treatment (n = 1) CDC III (n = 2, 3.5%) a. Pneumothorax requiring pharmacologic treatment (n = 1) CDC III (n = 2, 3.5%) a. Air leakage requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Reduced overview requiring conversion to thoracotomy (n = 2) b. Reduced overview requiring conversion to thoracotomy (n = 2) b. Reduced overview requiring perioperative conversions to thoracotomy (n = 2) b. Reduced overview requiring perioperative conversion to thoracotomy (n = 2) b. Reduced overview requiring perioperative conversion to thoracotomy (n = 2) c. Cholecystitis requiring revision by VATS (n = 1) b. Pleural effusion requiring prevision by VATS (n = 1) | e. Cicatricial defect requiring minor intervention (n = 1) | drainage (n = 1) |
| a. Pneumothorax requiring extra chest tube insertion (n = 2) CDC IIIb (n = 3, 5.3%) a. Air leakage requiring revision by VATS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) CDC IVa (n = 1, 1.8%) a. Mechanical ventilation required (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): CDC II (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 6) c. Cholecystitis requiring antibiotic treatment (n = 1) CDC III (n = 5, 8.8%) a. Pneumothorax requiring treatment (n = 1) CDC III (n = 2, 3.5%) a. Pneumothorax requiring treatment (n = 1) CDC III (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) CDC III (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) CDC IIIb (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) DDC IIIb (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) b. Pleural effusion requiring pleurodesis and/or extra chest tube insertion (n = 2) CDC IIIb (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) a. Air leakage requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) c. Caterial difficulties around bload corporative conversion to thoracotomy (n = 2) b. Pleural effusion requiring treatment: 2 c. Corporative conversions to thoracotomy (n = 1) b. Pleural effusion requiring revision by VATS (n = 1) | CDC IIIa $(n = 2, 3.5\%)$ | CDC IIIb (n = 1, 1.8%) |
| (1) (1) | a. Pneumothorax requiring extra chest tube insertion (n = 2) | a. Incomplete resection requiring reoperation by thoracotomy (n = |
| Air teakage requiring revision by VAIS (n = 2) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) C2 DCI IIa (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 2) b. Undiagnosed infection requiring antibiotic treatment (n = 1) c. Cholecystitis requiring antibiotic treatment (n = 1) d. Cicatricial defect requiring minor intervention (n = 2) e. Lung embolism requiring pharmacologic treatment (n = 1) CDCI IIIa (n = 5, 8.8%) a. Preumothorax requiring treatment (n = 1) CDCI IIIa (n = 2, 3.5%) a. Preumothorax requiring treatment (n = 1) CDCI IIIa (n = 5, 8.8%) a. Preumothorax requiring treatment (n = 1) CDCI IIIa (n = 2, 3.5%) a. Preumothorax requiring treatment (n = 1) CDCI IIIa (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) c. Cholecystitis requiring nervision by thoracotomy (n = 1) c. Cholecystitis requiring extra chest tube insertion (n = 2) c. CDCI IIIb (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by thoracotomy (n = 1) b. Reduced overview requiring perioperative conversion to thoracotomy (n = 2) b. Reduced overview requiring perioperative conversion to thoracotomy (n = 2) c. Cholecystitis requiring revision by thoracotomy (n = 1) | CDC IIIb $(n = 3, 5.3\%)$ | |
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| 2) b. Anatomical difficulties around blood vessels requiring perioperative conversion to thoracotomy (n = 1) C3 postoperative complications before hospital discharge (n = 19, 33.3%): CDC II (n = 12, 21.1%) a. New onset atrial fibrillation requiring pharmacologic treatment (n = 2) b. Undiagnosed infection requiring antibiotic treatment (n = 1) c. Cholecystitis requiring minor intervention (n = 2) e. Lung embolism requiring pharmacologic treatment (n = 1) CDC IIIa (n = 5, 8.8%) a. a. Pneumothorax requiring extra chest tube insertion (n = 3) b. Pleural effusion requiring neuviring pleurodesis and/or extra chest tube insertion (n = 2) CDC IIIb (n = 2, 3.5%) a. a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) | | a. Perioperative bleeding requiring conversion to thoracotomy (n= |
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| CDC IIIb (n = 2, 3.5%) a. Air leakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) c. Spender attve conversions to the action (n = -5, 5.5%): a. Massive adhesions requiring conversion to thoracotomy (n = 2) b. Reduced overview requiring perioperative conversion to thoracotomy (n = 1) | insertion (n = 2) | C3 perioperative conversions to the receiver $(n - 3, 5, 30/2)$. |
| a. Air teakage requiring revision by thoracotomy (n = 1) b. Intrathoracic bleeding requiring revision by VATS (n = 1) b. Reduced overview requiring perioperative conversion to thoracotomy (n = 1) | CDC IIIb ($n = 2, 3.5\%$) | $\begin{array}{c} \text{A} \text{Massive adhesions requiring conversion to thoracotomy (n=2)} \\ \text{A} \text{Massive adhesions requiring conversion to thoracotomy (n=2)} \\ \end{array}$ |
| b. Intractionable deeding requiring revision by VAIS (n = 1) b. Induced evention requiring perioperative conversion to thoracotomy (n = 1) | a. Air leakage requiring revision by thoracotomy (n = 1) | b. Beduced overview requiring perioperative conversion to |
| | b. Initiatioracic bleeding requiring revision by VAIS (N = 1) | thoracotomy (n = 1) |

A detailed description of conversions and postoperative complications after VATS lobectomy for each subcohort (C1, C2, and C3). Postoperative complications are classified according to the Clavien-Dindo Scale of Surgical Complications (CDC); thus, only the most severe complication for each patient is presented. $\Box \Box$ Abbreviations: CDC = Clavien-Dindo Scale of Surgical Complications; C = Subcohort; VATS = video-assisted thoracoscopic surgery