**APPENDIX**

**FIGURE A**

**Questionnaire for patients:**

* “*Before the treatment, you mentioned the following treatment goals. To what extent are these goals achieved on a scale of 0 to 10*?”

1.\_[Goal 1 is written here]\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

2.\_[Goal 2 is written here \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

3.\_[Goal 3 is written here]\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

4.\_[Goal 4 is written here]\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

- “*In retrospect, did you receive enough information on the treatment*?”

Too much/ enough/ not enough

This is what I missed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* “*In hindsight, do you think the right decision was made for treatment*?”

Yes/ No / I don’t know for sure

* *Did the treatment goals you had before the start of treatment, change during treatment?*
	+ Yes, namely
	+ No

**Questionnaire for oncologists:**

* “*Before your patient started the treatment, you mentioned the following treatment goals. To what extent are these goals achieved on a scale of 0 to 10*?”

1.\_[Goal 1 is written here]\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

2.\_[Goal 2 is written here \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

3.\_[Goal 3 is written here]\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

4.\_[Goal 4 is written here]\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

0 1 2 3 4 5 6 7 8 9 10

not achieved at all highly achieved

* “*In hindsight, do you think the right decision was made for treatment?*?”

Yes/ No / I don’t know for sure

|  |
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| TABLE A – Examples of treatment goals from patients and oncologists |
| **Category**  | **English** |
| Quality of life | Having a more comfortable life |
|  | Better quality of life |
|  | Better mobility |
|  | Feeling better |
|  | Being able to do more things than I can do now |
|  | The best quality of life |
|  | Making the quality of life as high as possible |
|  | Having a bearable life |
|  | Having a pleasant life |
|  | Good quality of life |
|  | Quality of life |
|  | Improve quality of life |
|  | Improve life |
|  | Strive for a better life than I have now |
|  | Living life to the fullest  |
|  | Pain relieve |
|  | Improvement |
|  | Improve life circumstances |
|  | Relieve dyspnoea |
|  | Less symptoms |
|  | More oxygen |
|  | Less pleural effusion |
|  | Being less ill  |
|  |  |
| Decrease in tumour size | Decrease tumour carcinoma  |
|  | Slow down tumour |
|  | Slow down metastases |
|  | Restriction of tumours |
|  | To stop cancer cells from growing |
|  | To stop the cancer |
|  | To prevent the cancer from growing |
|  | To control cancer |
|  | That the cancer disappears |
|  | To decrease the tumour cells |
|  | That the tumour disappears |
|  | That it does not grow any further |
|  | High stabilization of the disease |
|  | To fight the cancer |
|  | Prevent new metastases |
|  | To stop the tumour from growing |
|  | To delay the cancer process |
|  | To stop the cancer |
|  | Stopping the disease process |
|  | To shrink the tumour |
|  | To slow down the disease |
|  | To slow down the cells |
|  | Staying stable  |
|  | Stop the cancer |
|  | To withhold the tumour |
|  | To shrink the tumour |
|  | To delay the growth |
|  |  |
| Life prolongation  | Better life opportunities |
|  | To live longer |
|  | To enjoy time with my partner as long as possible |
|  | A future |
|  | Extra time |
|  | To live longer |
|  | Longer lifespan |
|  | To prolong life |
|  | Life prolongation |
|  | More time |
|  | To live as long as possible |
|  | Time gain  |
|  | Postpone death |
|  | To prolong life |
|  |  |
| Cure | Getting better |
|  | That I recover |
|  | Cured |
|  | Recovery |
|  | Regain one’s health |
|  | Prefer speedy recovery |
|  | Gain health |
|  |  |
| Other | Visiting Suriname  |
|  | Nothing |
|  | To keep the option for radiation |
|  | To quit  |
|  | To do everything about it |
|  | Improve medication for future patients |
|  | To contribute to science  |
|  | So that specialists can learn  |
|  | To have the feeling I have tried everything  |
|  | Gain more insight in research  |
|  | To keep the option for immunotherapy |

**TABLE B.**



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| TABLE C – Comparison of patients who filled out questionnaire or not  |  |
|  | **Filled out questionnaire** | **Did not filled out questionnaire** |
| N=240Variable (N)(column %) | **Patients who filled out N=146** | **Patients who died N=72** | **Patients who declined N=22** | **P-value** |
| Age – Years<60 (71)61-70 (102)≥ 71 (67) | 334225 | 264232 | 145036 | 0.311 |
| Sex Male (131)Female (109) | 5743 | 5446 | 4159 | 0.374 |
| Marital statusMarried (186)Unmarried (54) | 7822 | 7921 | 6832 | 0.538 |
| ComorbidityYes (154)No (79) | 6337 | 6733 | 8119 | 0.227 |
| ECOG performance score0 (35)1 (111)≥ 2 (60) | 225523 | 351**46** | 215326 | **0.005** |
| Tumour histologySCLC (13)NSCLC without targetable driver mutation (170)NSCLC with targetable driver mutation (57) | 66727 | 47521 | 9829 | 0.324 |
| Type of systemic treatmentChemotherapy (94)Immunotherapy (116)TKIs (30) | 424414 | 355312 | 36595 | 0.524 |
| Line of treatment1st (99)2nd (103)≥ 3rd (38) | 404119 | 434611 | 46468 | 0.525 |
| Hospital typeAcademic (177)Non-academic (63) | 7327 | 6931 | 919 | 0.132 |

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| TABLE D - Univariate and multivariate GEE analyses of factors associated with achievement of treatment goals according to patients |
| **N=219****Variable (N)** | **Goal achieved (≥6) according to patient (row %)** | **Univariate****OR (95%-CI)** | **Multivariate****OR (95%-CI)** |
| **Age - Years****≤60 (76)****61-70 (100)****≥71 (43)** | 405356 | 1.01.661 (0.908 – 3.041)**1.937 (0.908 – 4.131)** | 1.0**4.938 (2.249 – 10.846)****3.098 (1.174 – 8.178)** |
| **Sex** **Male (126)****Female (93)** | 4947 | 1.097 (0.675 – 1.785)1.0 |  |
| **Marital status****Married (179)****Unmarried (40)** | 4850 | 0.920 (0.512 – 1.652)1.0 |  |
| **Education****Low (47)****Middle (95)****High (60)** | 514647 | 1.00.775 (0.361 – 1.662)0.904 (0.309 – 2.639) |  |
| **Religious****Yes (88)****No (131)** | 4451 | 1.01.365 (0.473 – 3.942) |  |
| **Comorbidity****Yes (135)****No (76)** | 5246 | 1.341 (0.646 – 2.781)1.0 |  |
| **ECOG performance score****0 (39)****1 (111)****≥ 2 (46)** | 544746 | 1.00.848 (0.323 – 2.225)0.755 (0.291 – 1.959) |  |
| **Quality of life (mean ± stdev)** | 4.6 ± 1.6 | **1.927 (1.482 – 2.507)** | **2.001 (1.501 – 2.667)** |
| **Tumour histology****SCLC (13)****NSCLC without targetable driver mutation (152)****NSCLC with targetable driver mutation (54)** | 465044 | 1.01.247 (0.168 – 9.248)1.056 (0.151 – 7.375) |  |
| **Type of systemic treatment****Chemotherapy (92)****Immunotherapy (100)****TKIs (27)** | 534737 | 1.00.684 (0.289 – 1.617)**0.516 (0.262 – 1.018)** | 1.00.489 (0.165 – 1.446)**0.277 (0.091 – 0.847)** |
| **Line of treatment****1st (84)****2nd (96)****≥ 3rd (39)** | 554555 | 1.0**0.615 (0.355 – 1.067)**0.642 (0.238 – 1.731) |  |
| **Treatment duration****<2 months (95)****2-6 months (64)****> 6 months (60)** | 315570 | 1.0**2.617 (1.323 – 5.179)****4.966 (1.871 – 13.185)** | 1.02.176 (0.990 – 4.785)**6.449 (2.632 – 15.802)** |
| **Hospital type****Academic (164)****Non-academic (55)** | 4946 | 1.169 (0.526 – 2.595)1.0 |  |
| **Treatment goal****Quality of life (69)****Decrease in tumour size (70)****Cure (27)****Life prolongation (53)** | 46394466 | 1.00.792 (0.321 – 1.955)0.950 (0.424 – 2.133)**2.233 (1.134 – 4.337)** |  |

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| TABLE E - Univariate and multivariate GEE analyses of factors associated with achievement of treatment goals according to oncologists  |
| **N=428****Variable (N)** | **Goal achieved (≥6) according to oncologists (row %)** | **Univariate****OR (95%-CI)**  | **Multivariate****OR (95%-CI)** |
| **Age - Years****≤60 (120)****61-70 (182)****≥71 (124)** | 553753 | 1.0**0.489 (0.266 – 0.900)**0.846 (0.576 – 1.242) |  |
| **Sex** **Male (226)****Female (202)** | 4649 | 1.01.068 (0.632 – 1.806) |  |
| **Marital status****Married (337)****Unmarried (90)** | 4553 | 1.01.323 (0.843 – 2.077) |  |
| **Education****Low (79)****Middle (186)****High (107)** | 574253 | 1.0**0.685 (0.444 – 1.056)**1.133 (0.443 – 2.894) |  |
| **Religious****Yes (167)****No (261)** | 4648 | 1.01.088 (0.652 – 1.815) |  |
| **Comorbidity****Yes (272)****No (142)** | 4449 | 1.01.359 (0.609 – 3.030) |  |
| **ECOG performance score****0 (60)****1 (194)****≥ 2 (105)** | 624934 | 1.0**0.573 (0.348 – 0.942)****0.310 (0.142 – 0.678)** | 1.0**0.468 (0.217 – 1.009)****0.338 (0.114 – 1.000)** |
| **Quality of life (mean ± stdev)** | 4.6 ± 1.6 | **1.518 (1.286 – 1.792)** |  |
| **Tumour histology****SCLC (25)****NSCLC without targetable driver mutation (296)****NSCLC with targetable driver mutation (107)** | 564260 | 1.00.673 (0.241 – 1.880)1.358 (0.376 – 4.902) |  |
| **Type of systemic treatment****Chemotherapy (175)****Immunotherapy (192)****TKIs (61)** | 464072 | 1.00.711 (0.287 – 1.761)**2.869 (1.461 – 5.634)** | 1.0**0.356 (0.153 – 0.829)**0.651 (0.171 – 2.478) |
| **Line of treatment****1st (196)****2nd (174)****≥ 3rd (58)** | 494353 | 1.00.783 (0.437 – 1.401)1.046 (0.534 – 2.047) |  |
| **Treatment duration** **<2 months (183)****2-6 months (133)****> 6 months (106)** | 145592 | 1.0**6.817 (3.747 – 12.403)****72.613 (19.245 – 273.970)** | 1.0**7.356 (3.298 – 16.407)****134.476 (25.721 – 703.069)** |
| **Patients who died during treatment** **Yes (114)****No (314)** | 3452 | 1.0**2.114 (1.207 – 3.702)** |  |
| **Hospital type****Academic (309)****Non-academic (119)** | 4747 | 1.006 (0.452 – 2.237)1.0 |  |
| **Treatment goal****Quality of life (171)****Decrease in tumour size (140)****Life prolongation (117)** | 454947 | 1.01.111 (0.834 –1.480)1.065 (0.868 – 1.307) |  |