

Supplementary Material

Optimal lung cancer care pathways: a Tasmanian perspective

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Table S1: Timeline benchmark comparison (2019)

Timeline	Mean (SD), days	Median (IQR), days	Range(days)	Benchmark(days)	% meeting benchmark	% below benchmark
GP referral to:						
Specialist appointment	7(7)	6(3-8)	0-40	14	93	7
Diagnosis	27(26)	19(10-32)	0-119	28	60	40
Any treatment intent						
<i>First treatment medical oncology</i>	59(47)	54(25-66)	11-184	42	13	87
<i>First treatment radiation oncology</i>	79(53)	67(43-125)	-30-161	42	10	90
<i>First cardiothoracic surgery</i>	83(33)	71(63-91)	55-137	42	0	100
<i>First other treatment</i>	44(31)	36(30-50)	16-88	42	10	90
Diagnosis to:						
Any treatment intent						
<i>First treatment medical oncology</i>	41(45)	35(16-44)	3-169	14	10	90
<i>First treatment radiation oncology</i>	44(33)	40(28-53)	-30-98	14	3	97
<i>First cardiothoracic surgery</i>	47(17)	44(36-50)	28-74	14	0	100
<i>First other treatment</i>	29(31)	22(7-44)	1-69)	14	7	93
Other timelines						
First specialist to diagnosis	20(25)	12(5-25)	-8-112	14*	53	47
First specialist visit to MDT	38(29)	37(16-42)	2-112	14*	33	67
First seen by medical oncology to treatment	23(44)	12(3-17)	0-153	14*	23	77
First seen by radiation oncology to treatment	14(12)	15(8-21)	-15-27	14*	20	80
First seen by cardiothoracic surgery service to treatment	19(5)	19(17-21)	14-23	14*	3	97

*Not an established benchmark; ** diagnostic procedure/diagnosis; GP, General practitioner; SD; standard deviation; IQR, interquartile range; MDT, multidisciplinary team

Table S2: Timeline benchmark comparison (2020)

Timeline	Mean (SD) (days)	Median (IQR) (days)	Range (days)	Benchmark (days)	% meeting benchmark	% below benchmark
GP referral to:						
Specialist appointment	8 (7)	7(3-11)	-9-28	14	89	11
Diagnosis	20(11)	19(14-25)	-1-56	28	82	18
Any treatment intent						
<i>First treatment medical oncology</i>	59(27)	57(42-74)	16-128	42	16	84
<i>First treatment radiation oncology</i>	61(28)	56(42-79)	18-115	42	7	93
<i>First cardiothoracic surgery</i>	69(34)	60(41-100)	36-109	42	5	95
<i>First other treatment</i>	59(49)	33(26-91)	21-133	42	9	91
Diagnosis to:						
Any treatment intent						
<i>First treatment medical oncology</i>	41(23)	40(28-51)	-2-114	14	5	95
<i>First treatment radiation oncology</i>	38(25)	35(22-54)	-2-94)	14	5	95
<i>First cardiothoracic surgery</i>	46(32)	34(22-66)	18-95	14	0	100
<i>First other treatment</i>	42(17)	17(10-77)	7-106	14	7	93
Other timelines						
First specialist to diagnosis	13(8)	11(7-18)	1-32	14*	61	39
First specialist visit to MDT	22(11)	21(14-28)	0-49	14*	32	68
First seen by medical oncology to treatment	19(17)	18(8-25)	0-59	14*	27	73
First seen by radiation oncology to treatment	15(18)	15(7-20)	-16-65	14*	14	86
First seen by cardiothoracic surgery service to treatment	21(19)	11(8-31)	7-52	14*	9	91

*Not an established benchmark; ** diagnostic procedure/diagnosis; GP, General practitioner; SD; standard deviation; IQR, interquartile range; MDT, multidisciplinary team

Table S3: Timeline benchmark comparison (2021)

Timeline	Mean (SD) (days)	Median (IQR) (days)	Range (days)	Benchmark (days)	% meeting benchmark	% below benchmark
GP referral to:						
Specialist appointment	7(4)	7(4-8)	1-17	14	96	6
Diagnosis	23(14)	20(12-35)	-7-57	28	67	33
Any treatment intent						
<i>First treatment medical oncology</i>	57(21)	49(44-69)	14-108	42	8	92
<i>First treatment radiation oncology</i>	61(22)	56(46-75)	22-97	42	4	96
<i>First cardiothoracic surgery</i>	78(23)	74(63-87)	47-125	42	0	100
<i>First other treatment</i>	64(65)	38(32-65)	11-176	42	6	94
Diagnosis to:						
Any treatment intent						
<i>First treatment medical oncology</i>	41(23)	40(28-51)	-2-114	14	5	95
<i>First treatment radiation oncology</i>	38(25)	35(22-54)	-2-94	14	5	95
<i>First cardiothoracic surgery</i>	46(32)	34(22-66)	18-95	14	0	100
<i>First other treatment</i>	42(46)	17(10-77)	7-106	14	7	93
Other timelines						
First specialist to diagnosis	16(14)	13(7-25)	-20-54	14*	53	47
First specialist visit to MDT	26(14)	21(14-34)	6-56	14*	27	73
First seen by medical oncology to treatment	16(9)	14(10-22)	2-33	14*	27	73
First seen by radiation oncology to treatment	18(11)	17(11-25)	3-41	14*	17	83
First seen by cardiothoracic surgery service to treatment	26(18)	21(13-33)	6-56	14*	8	92

*Not an established benchmark; ** diagnostic procedure/diagnosis; GP, General practitioner; SD; standard deviation; IQR, interquartile range; MDT, multidisciplinary team

Table S4: Timeline benchmark comparison (2022)

Timeline	Mean (SD) (days)	Median (IQR) (days)	Range (days)	Benchmark (days)	% meeting benchmark	% below benchmark
GP referral to:						
Specialist appointment	8(7)	5(3-11)	1-28	14	85	15
Diagnosis	24(14)	19(14-32)	7-70	28	82	28
Any treatment intent						
<i>First treatment medical oncology</i>	59(27)	61(42-75)	14-117	42	9	91
<i>First treatment radiation oncology</i>	85(43)	76(53-189)	40-189	42	5	95
<i>First cardiothoracic surgery</i>	79(19)	78(75-86)	46-109	42	0	100
<i>First other treatment</i>	33(10)	36(26-41)	19-49	42	23	77
Diagnosis to:						
Any treatment intent						
<i>First treatment medical oncology</i>	39(24)	36(26-46)	3-102	14	5	95
<i>First treatment radiation oncology</i>	54(36)	37(35-69)	15-168	14	0	100
<i>First cardiothoracic surgery</i>	57(20)	58(40-71)	34-85	14	0	100
<i>First other treatment</i>	17(10)	21(11-24)	1-28	14	13	87
Other timelines						
First specialist to diagnosis	16(12)	11(7-19)	3-48	14*	66	44
First specialist visit to MDT	27(15)	21(15-36)	7-59	14*	27	73
First seen by medical oncology to treatment	13(7)	14(7-20)	1-23	14*	26	74
First seen by radiation oncology to treatment	25(10)	23(21-30)	7-42	14*	5	95
First seen by cardiothoracic surgery service to treatment	31(15)	30(17-41)	16-55	14*	0	100

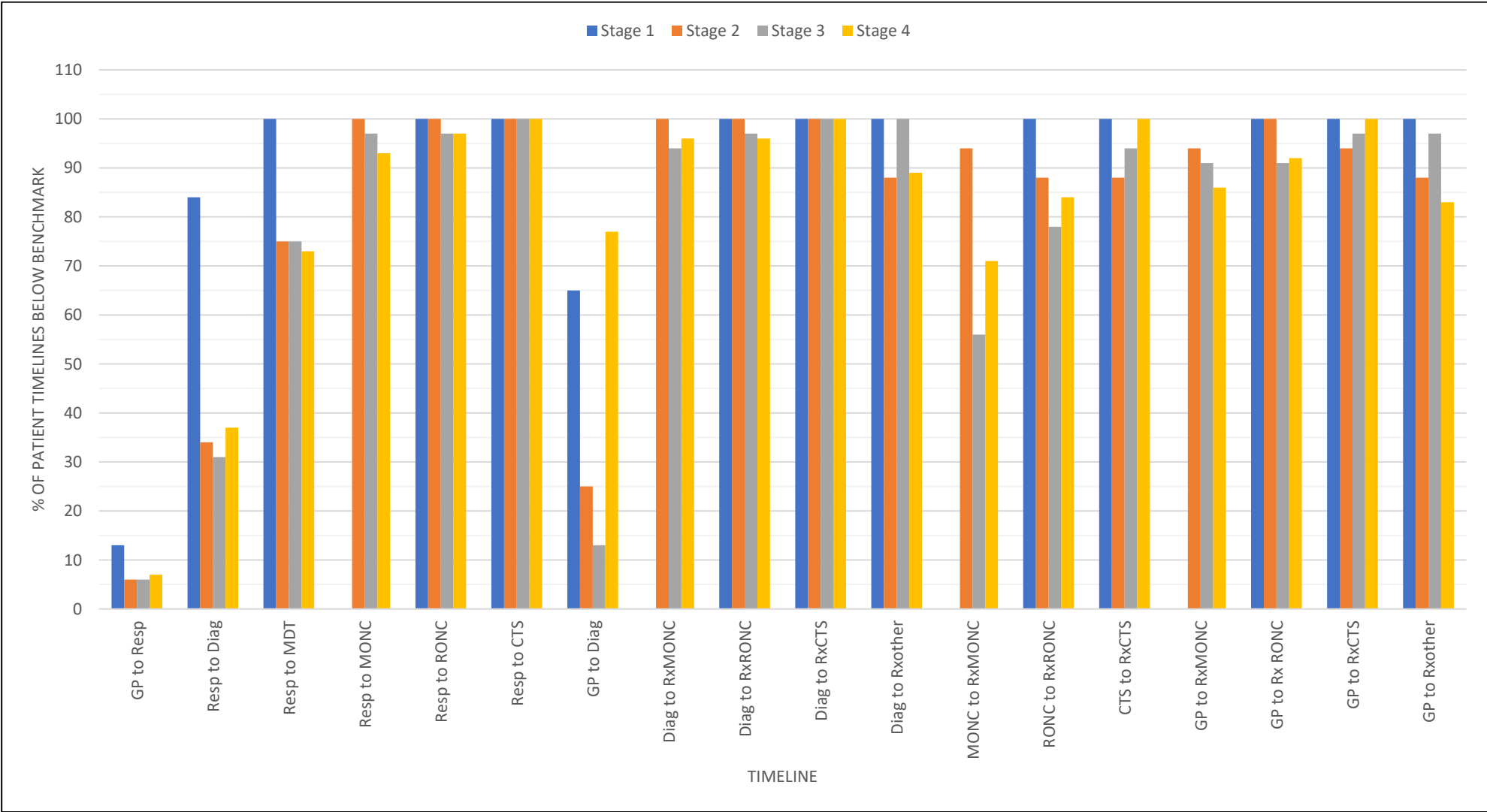
*Not an established benchmark; ** diagnostic procedure/diagnosis; GP, General practitioner; SD; standard deviation; IQR, interquartile range; MDT, multidisciplinary team

Table S5 Comparison of timelines by lung cancer stage

Timelines	Benchmark	Stage1		Stage 2		Stage 3		Stage 4	
		Mean (SD)	% meeting benchmark	Mean (SD)	% meeting benchmark	Mean (SD)	% meeting benchmark	Mean (SD)	% meeting benchmark
GP to Resp	14	9(9)	87	7(6)	94	7(4)	94	7(6)	93
Resp to Diag	14*	30(19)	16	15(18)	66	12(9)	69	13(11)	63
Resp to MDT	14*	46(22)	0	27(19)	25	24(12)	25	22(12)	27
Resp to MONC	14	-	-	42(7)	0	55(22)	3	55(29)	7
Resp to RONC	14	104(36)	0	75(31)	0	47(17)	3	41(26)	3
Resp to CTS	14	74(27)	0	72(30)	0	55(16)	0	102**	0
GP to Diag	28	39(21)	35	21(19)	75	19(10)	87	20(12)	23
Diag to RxMONC	14*	-	-	34(7)	0	43(21)	6	41(27)	4
Diag to RxRONC	14	71(35)	0	55(24)	0	36(14)	3	29(23)	4
Diag to RxCTS	14	46(21)	0	56(25)	0	43(15)	0	95**	0
Diag to Rxother	14	49(29)	0	9(4)	12	96(104)	0	26(30)	11
MONC to RxMONC	14*	-	-	17(4)	6	14(11)	44	20(23)	29
RONC to RxRONC	14*	29(13)	0	22(14)	12	16(11)	22	12(10)	16
CTS to RxCTS	14*	47(22)	0	32(18)	12	19(9)	6	37**	0
GP to RxMONC	42	-	-	39(16)	6	62(23)	9	62(30)	14
GP to Rx RONC	42	114(35)	0	85(30)	0	56(18)	9	51(29)	8
GP to RxCTS	42	82(26)	0	80(27)	6	62(17)	3	109**	0
GP to Rxother	42	69(28)	0	18(10)	12	107(98)	3	43(32)	17

*Not an established benchmark; **Only one patient in this group; GP, General Practitioner; Diag, diagnosis; Resp, Respiratory specialist service; MDT, multidisciplinary team; MONC, medical oncology service; RONC, radiation oncology service; CTS, cardiothoracic surgery service; Rx, treatment; other, other treatment modalities example palliative care.

Figure S1 Percentage of patients with timelines below benchmark by stage



GP, General Practitioner; Diag, diagnosis; Resp, Respiratory specialist service; MDT, multidisciplinary team; MONC, medical oncology service; RONC, radiation oncology service; CTS, cardiothoracic surgery service; Rx, treatment; other, other treatment modalities example palliative care.