

Data supplement

Table DS1 Unit costs for primary care and personal social services^a

Services	Unit Cost	Comments
GP clinic consultation	34.00	Based on a 11.7-minute consultation
GP telephone consultation	20.00	Based on a 7.1-minute consultation
GP home visit	85.00	Based on a 23.4-minute visit
Out-of-hours GP service face-to-face at clinic	25.03	Estimate derived from Scott ¹ and increased by 22% as per O'Dowd, ² inflated to 2012/13 prices
GP out-of-hours service home visits	62.56	Adjusted for duration in line with GP consultations
GP out-of-hours service phone calls	14.72	Adjusted for duration in line with GP consultations
Practice nurse clinic consultation	11.37	Based on 15.5-minute consultation
Practice nurse telephone consultation	6.69	Based on 9.4-minute consultation
Other primary and community care		
Community mental health nurse home visit	65.00	Assume one-hour consultation
Community mental health nurse phone consultation	21.67	Assume average length of call is 20 minutes
Community support worker clinic consultation	24.50	Assume 30-minute consultations
Community support worker home visit	49.00	Assume one-hour consultation
Community support worker phone consultation	16.33	Assume average length of call is 20 minutes
Counsellor clinic consultation	58.00	Assume 55-minute consultation
Counsellor telephone consultation	15.75	Assume average length of call is 15 minutes
Dietician	14.67	Assume 20-minute consultation
District nurse home visit	60.00	Includes non-contact time related to the visit, assume visits plus these activities take one hour

District nurse phone consultation	10.50	Assume average length of call is 15 minutes
Health trainer	14.67	Same as practice nurse, but assumed appointment time of 20 minutes
Midwife	12.75	Assumed a 15-minute consultation
NHS walk-in centre	34.06	Munro <i>et al.</i> , ³ inflated to 2012/13 prices
NHS walk-in centre phone consultation	22.23	Munro <i>et al.</i> , ³ inflated to 2012/13 prices
Occupational therapist clinic consultation	34.00	Assume 23-minute consultation
Occupational therapist home visit	62.09	Assume 42-minute visit
Occupational therapist phone consultation	18.72	Assume average length of call is 12.7 minutes
Phlebotomist consultation	6.46	Assume a 15.5-minute consultation
Physician associate	22.00	Costed as per specialist nurses
Physiotherapist	30.00	Assume one-hour consultation
Podiatry	30.00	Assume one-hour consultation
Social worker clinic consultation	79.50	Assume 30-minute consultation
Social worker home consultation	159.00	Assume one-hour visit
Social worker phone consultation	53.00	Assume average length of call is 20 minutes
Specialist nurse (e.g. asthma nurse)	22.00	Costed per consultation

a The source of the costs for the above primary care and personal social services is Curtis,⁴ unless otherwise referenced

Table DS2 National average unit costs of hospital-related services^a

Servives	Unit cost (£)
Inpatient stays	
Syncope or Collapse with CC Score 0-3	382
Alcohol Services, Adult, Admitted Patient	349
All patients between 19 and 69 years with a Mental Health Primary Diagnosis, treated by a Non-Specialist Mental Health Service Provider	376
Syncope or Collapse with CC Score 0-3	528

Unspecified Chest Pain with CC Score 0-4	533
Day care and outpatient visits	
Adult Mental Illness: Non-Admitted Face to Face Attendance, Non consultant led, First	34
Adult mental Illness: Non-Admitted Face to Face Attendance, Consultant led Follow-up	232
Alcohol Services, Adult, Outpatient Attendances	104
Counsellor	58
Drug and Alcohol Services, Adult and Elderly	77
Endocrinology: Multiprofessional Non-Admitted Face to Face Attendance, Follow-up	162
General Medicine: All patients between 19 and 69 years with a Mental Health Primary Diagnosis, treated by a Non-Specialist Mental Health Service Provider	288
General Medicine: Syncope or Collapse with CC Score 0-3	366
Group Therapy	28
IAPT, Adult and Elderly	104
Occupational Therapist	63
Pain Management: Non-Admitted Face to Face Attendance, First	171
Pain Management: Non-Admitted Face to Face Attendance, Follow-up	136
Psychiatrist	261
Specialist Nurse	123
Urology: Non-Admitted Face to Face Attendance, First	123
Weighted average of all adult outpatient attendances (excluding elderly people)	100
Accident and emergency	
Accident and Emergency - Type 01 Non-Admitted	96
Paramedic/ambulance	
See treat and convey	255

a The cost of these hospital-related services was based on NHS Reference Costs 2012/13⁵ and Curtis.⁶

Table DS3 Unit costs of resources involved in delivering telehealth intervention

Depression	
Basic HIA annual salary (Band 4)	£20,638.00
Oncosts: National insurance and super annuation	£4,827.00
Overheads	£35,417.00
Cost per hour	£23.61
Training cost per HIA per hour	£0.53
Ratio of contact: non-contact time	2:1
Adjusted cost per hour of HIA time	£36.22
LLTTFi licence	£3,000.00
CBT Book per book	£52.85
BWW licence per participant using	£60.00

HIA = Health Information Advisor; LLTTFi = Living Life to the Full Interactive programme; CBT = cognitive behavioural therapy; BWW = Big White Wall programme;

Table DS4 Mean (SD) number of primary care consultations in the depression trial: all available data and complete cases

Primary care services	Usual care		Intervention	
	N	Mean (SD)	N	Mean (SD)
All available data				
GP consultations	297	8.70 (6.51)	305	9.68 (6.90)
Nurse consultations	297	2.62 (3.78)	305	2.81 (3.93)
Other primary care consultations	297	3.28 (6.14)	305	3.06 (3.78)
Complete cases				
GP consultations	155	8.76 (6.93)	144	9.35 (6.71)
Nurse consultations	155	2.73 (3.33)	144	2.76 (3.74)
Other primary care consultations	155	3.68 (4.08)	144	3.20 (4.00)

Table DS5 Mean (SD) cost (£) per participant of primary care consultations in the depression trial: all available data and complete cases

Primary care services	Usual care		Intervention	
	N	Mean £ (SD)	N	Mean £ (SD)
All available data				
GP consultations	297	273.43 (198.62)	305	303.52 (213.44)
Nurse consultations	297	28.98 (41.99)	305	30.75 (42.39)
Other primary care consultations	297	58.88 (102.94)	305	69.48 (136.95)
Total primary care cost	297	361.29 (271.21)	305	403.76 (292.72)
Complete cases				
GP consultations	155	273.99 (206.14)	144	295.12 (205.77)
Nurse consultations	155	30.24 (36.88)	144	30.65 (41.72)
Other primary care consultations	155	64.57 (101.26)	144	79.14 (165.22)
Total primary care cost	155	368.80 (267.30)	144	404.90 (298.18)

Table DS6 Mean (SD) number of prescribed medication items and cost (£) per participant in the depression trial: all available data and complete cases

Primary care services	Usual care		Intervention	
	N	Mean (SD)	N	Mean (SD)
No. of prescribed items				
All available data	297	13.18 (20.82)	305	12.18 (11.98)
Complete cases	155	13.27 (11.75)	144	12.26 (10.43)
Cost of prescribed medication (£)				
All available data	297	89.13 (202.54)	305	92.38 (179.82)
Complete cases	155	86.92 (196.85)	144	72.43 (127.03)

Table DS7 Mean (SD) number of contacts with NHS community services per participant in the depression trial: all available data and complete cases

Community services	Usual care		Intervention	
	N	Mean (SD) number of contacts	N	Mean (SD) number of contacts
All available data				
District nurse home visit	200	0.15 (0.72)	175	0.03 (0.31)
District nurse phone consultation	200	0.10 (0.52)	175	0.06 (0.49)
Community mental health nurse home visit	200	0.05 (0.41)	175	0.07 (0.55)
Community mental health nurse phone consultation	200	0.05 (0.34)	175	0.05 (0.35)
NHS counsellor/psychologist clinic consultation	200	1.02 (2.69)	175	1.38 (2.97)
NHS counsellor/psychologist phone consultation	200	0.17 (0.97)	175	0.62 (1.93)
Psychiatrist clinic consultation	200	0.16 (0.84)	175	0.19 (0.96)
Psychiatrist home visit	200	0.01 (0.07)	175	-
Psychiatrist phone consultation	200	0.03 (0.19)	175	0.02 (0.24)
Occupational therapist clinic consultation	200	0.19 (0.83)	175	0.41 (1.60)
Occupational therapist home visit	200	0.17 (0.80)	175	0.05 (0.33)
Occupational therapist phone consultation	200	0.12 (0.53)	175	0.10 (0.42)
NHS walk-in centre clinic consultation	200	0.13 (0.46)	175	0.22 (0.62)
NHS walk-in centre phone consultation	200	0.04 (0.25)	175	0.09 (0.49)
GP out-of-hours service clinic consultation	200	0.09 (0.39)	175	0.14 (0.53)
GP out-of-hours service home visit	200	0.01 (0.14)	175	0.05 (0.34)
GP out-of-hours phone consultation	200	0.12 (0.49)	175	0.19 (0.79)
Complete cases				
District nurse home visit	155	0.16 (0.77)	144	-

District nurse phone consultation	155	0.08 (0.47)	144	0.06 (0.53)
Community mental health nurse home visit	155	0.03 (0.32)	144	0.06 (0.51)
Community mental health nurse phone consultation	155	0.03 (0.27)	144	0.05 (0.38)
NHS counsellor/psychologist clinic consultation	155	1.01 (2.70)	144	1.48 (3.08)
NHS counsellor/psychologist phone consultation	155	0.13 (0.65)	144	0.67 (2.08)
Psychiatrist clinic consultation	155	0.11 (0.53)	144	0.19 (1.03)
Psychiatrist home visit	155	0.01 (0.08)	144	-
Psychiatrist phone consultation	155	0.02 (0.14)	144	0.02 (0.25)
Occupational therapist clinic consultation	155	0.16 (0.82)	144	0.40 (1.58)
Occupational therapist home visit	155	0.20 (0.89)	144	0.01 (0.12)
Occupational therapist phone consultation	155	0.09 (0.50)	144	0.08 (0.38)
NHS walk-in centre clinic consultation	155	0.13 (0.48)	144	0.16 (0.50)
NHS walk-in centre phone consultation	155	0.03 (0.24)	144	0.08 (0.51)
GP out-of-hours service clinic consultation	155	0.09 (0.40)	144	0.14 (0.56)
GP out-of-hours service home visit	155	0.01 (0.16)	144	0.03 (0.26)
GP out-of-hours phone consultation	155	0.11 (0.50)	144	0.17 (0.76)

Table DS8 Mean (SD) cost (£) per participant of NHS community services in the depression trial: all available data and complete cases

Community services	Usual care		Intervention	
	N	Mean £ (SD)	N	Mean £ (SD)
All available data				
District nurse home visit	200	9.00 (43.27)	175	1.71 (18.68)
District nurse phone consultation	200	1.00 (5.43)	175	0.60 (5.12)
Community mental health nurse home visit	200	3.25 (26.67)	175	4.46 (35.93)
Community mental health nurse phone consultation	200	1.08 (7.45)	175	0.99 (7.64)
NHS counsellor/psychologist clinic consultation	200	59.16 (155.91)	175	79.87 (172.05)
NHS counsellor/psychologist phone consultation	200	2.68 (15.32)	175	9.81 (30.37)
Psychiatrist clinic consultation	200	41.76 (219.60)	175	49.22 (249.32)
Psychiatrist home visit	200	1.30 (18.46)	175	-
Psychiatrist phone consultation	200	6.49 (48.39)	175	5.97 (62.28)
Occupational therapist clinic consultation	200	11.67 (52.57)	175	25.96 (100.84)
Occupational therapist home visit	200	10.87 (49.58)	175	3.19 (20.27)
Occupational therapist phone consultation	200	2.15 (9.96)	175	1.93 (7.79)
NHS walk-in centre clinic consultation	200	4.26 (15.62)	175	7.40 (21.25)
NHS walk-in centre phone consultation	200	0.78 (5.63)	175	1.91 (10.88)
GP out-of-hours service clinic consultation	200	2.89 (13.10)	175	4.86 (18.12)
GP out-of-hours service home visit	200	0.85 (12.02)	175	3.89 (28.55)
GP out-of-hours phone consultation	200	2.30 (9.86)	175	3.77 (15.81)
Total costs for available cases	200	161.53 (346.84)	175	205.52 (389.59)
Complete cases				
District nurse home visit	155	9.68 (46.11)	144	-
District nurse phone consultation	155	0.88 (4.93)	144	0.66 (5.58)

Community Mental Health Nurse home visit	155	1.68 (20.88)	144	3.61 (33.31)
Community Mental Health Nurse phone consultation	155	0.70 (5.75)	144	1.05 (8.24)
NHS Counsellor/Psychologist clinic consultation	155	58.75 (156.69)	144	85.79 (178.60)
NHS Counsellor/Psychologist phone consultation	155	2.03 (10.27)	144	10.50 (32.69)
Psychiatrist clinic consultation	155	28.63 (138.13)	144	50.75 (267.81)
Psychiatrist home visit	155	1.68 (20.96)	144	-
Psychiatrist phone consultation	155	5.05 (36.07)	144	5.44 (65.25)
Occupational therapist clinic consultation	155	10.18 (51.60)	144	24.98 (99.90)
Occupational therapist home visit	155	12.42 (54.99)	144	0.86 (7.29)
Occupational therapist phone consultation	155	1.69 (9.39)	144	1.56 (7.17)
NHS walk-in centre clinic consultation	155	4.39 (16.33)	144	5.44 (16.93)
NHS walk-in centre phone consultation	155	0.72 (5.33)	144	1.85 (11.31)
GP out-of-hours service clinic consultation	155	3.07 (13.63)	144	4.72 (19.12)
GP out-of-hours service home visit	155	1.10 (13.65)	144	2.36 (22.35)
GP out-of-hours phone consultation	155	2.19 (10.08)	144	3.47 (15.21)
Total costs for complete cases	155	144.84 (278.06)	144	203.05 (401.27)

Table DS9 Mean (SD) number of hospital encounters and use of ambulance services in the depression trial: all available data and complete cases

Services	Usual care		Intervention	
	N	Mean (SD) number of encounters	N	Mean (SD) number of encounters
All available data				
Overnight hospital stay	204	0.03 (0.23)	175	-
Day care	204	0.03 (0.25)	175	0.02 (0.24)
Outpatient clinic	201	0.13 (0.49)	174	0.08 (0.29)
Accident and emergency	246	0.03 (0.25)	233	0.03 (0.18)
Other hospital services	246	0.06 (0.24)	233	0.05 (0.21)
Ambulance use	199	0.03 (0.22)	176	0.01 (0.11)
Complete cases				
Overnight hospital stay	155	0.03 (0.23)	144	-
Day care	155	0.03 (0.16)	144	0.01 (0.08)
Outpatient clinic	155	0.14 (0.50)	144	0.04 (0.20)
Accident and emergency	155	0.04 (0.30)	144	0.02 (0.19)
Other hospital services	155	0.06 (0.25)	144	0.04 (0.20)
Ambulance use	155	0.03 (0.20)	144	0.01 (0.08)

Table DS10 Mean (SD) cost (£) per participant of hospital and ambulance care in the depression trial: all available data and complete cases

Services	Usual care		Intervention	
	N	Mean £ (SD)	N	Mean £ (SD)
All available data				
Overnight hospital stay	204	12.70 (105.74)	175	-
Day care	204	5.25 (41.70)	175	3.34 (37.06)
Outpatient clinic	201	52.12 (247.56)	174	29.61 (208.31)
Accident and emergency	246	5.84 (60.60)	233	3.29 (27.93)
Other hospital services	246	3.40 (21.12)	233	1.00 (15.19)
Ambulance use	199	7.68 (56.69)	176	2.89 (27.06)
Mean cost for available cases ^a	191	65.42 (282.74)	170	34.05 (223.43)
Complete cases				
Overnight hospital stay	155	9.79 (85.87)	144	-
Day care	155	4.13 (33.33)	144	0.72 (8.67)
Outpatient clinic	155	41.21 (197.59)	144	24.84 (220.28)
Accident and emergency	155	8.65 (75.90)	144	3.33 (32.85)
Other hospital services	155	2.44 (14.26)	144	-
Ambulance use	155	6.57 (49.81)	144	1.77 (21.21)
Mean cost for complete cases	155	72.78 (308.24)	144	30.66 (235.14)

^a The mean cost for all available cases is summed over available cases across all categories of care reported, and hence is not equal to the sum of individual costs.

Table DS11 Cost-effectiveness of the depression intervention from an NHS perspective

	Usual care mean	Intervention mean	Difference (95% CI)
Costs and QALYs			
Total NHS costs	£680	£872	£192 (71 to 313)
QALYs	0.540	0.541	0.001 (-0.023 to 0.026)

Cost-effectiveness statistics

ICER: £152,590

Probability that intervention cost effective at CE threshold of £20,000: 0.27

Probability that intervention cost effective at CE threshold of £30,000: 0.35

NMB at threshold of £20,000 (95% confidence interval): -£167 (-£188 to -146)

CI = Confidence interval; QALYs = Quality-adjusted life years; ICER = Incremental cost-effectiveness ratio; CE = Cost-effectiveness; NMB = Net monetary benefit

Figure DS1 Cost-effectiveness acceptability curve from an NHS perspective for imputed model

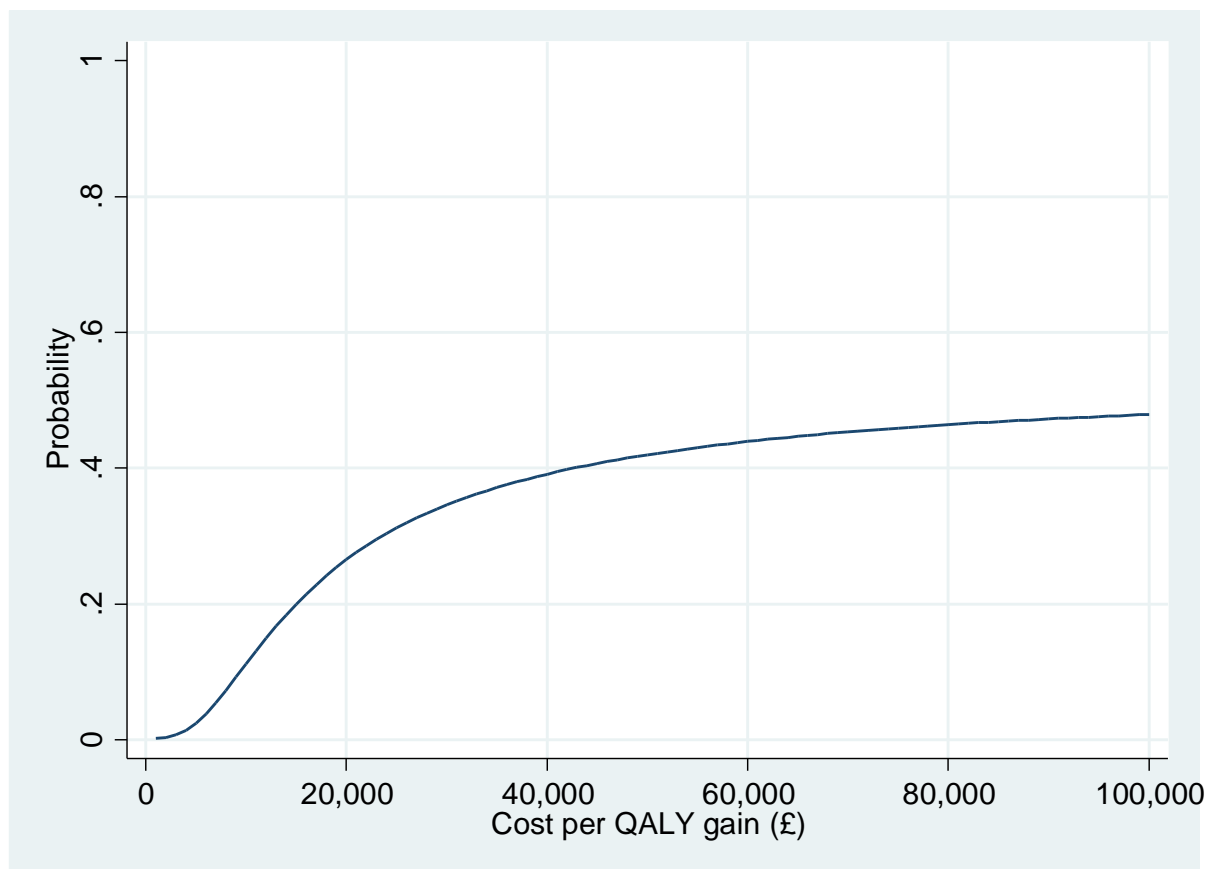
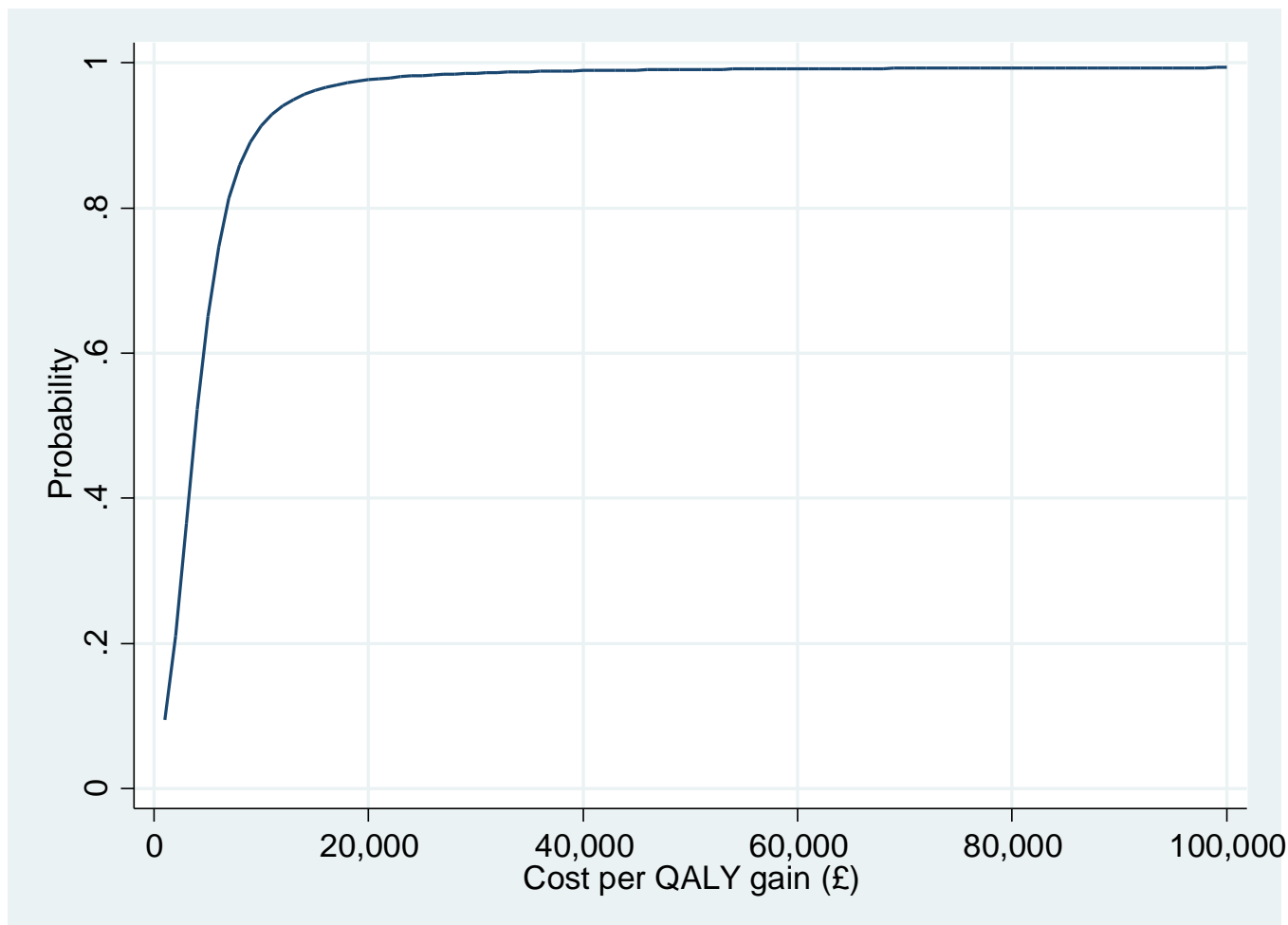


Figure DS2 Cost-effectiveness acceptability curve for complete case analysis



References

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