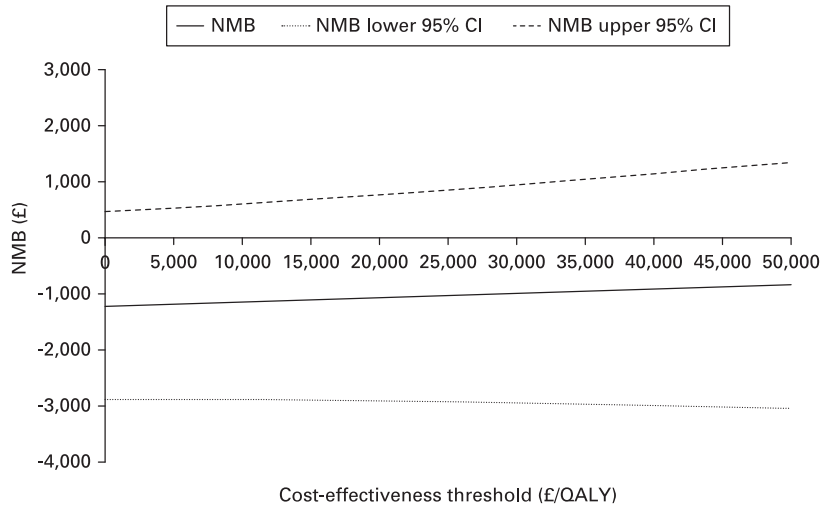


Fig. aa

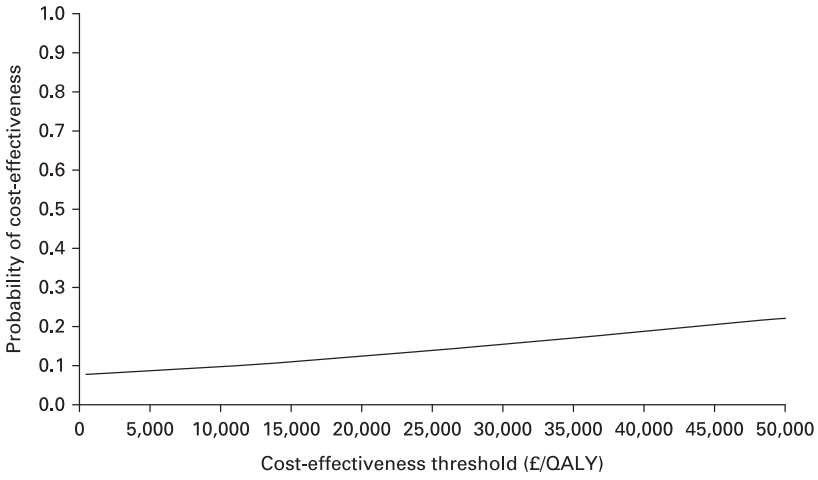


Fig. ab

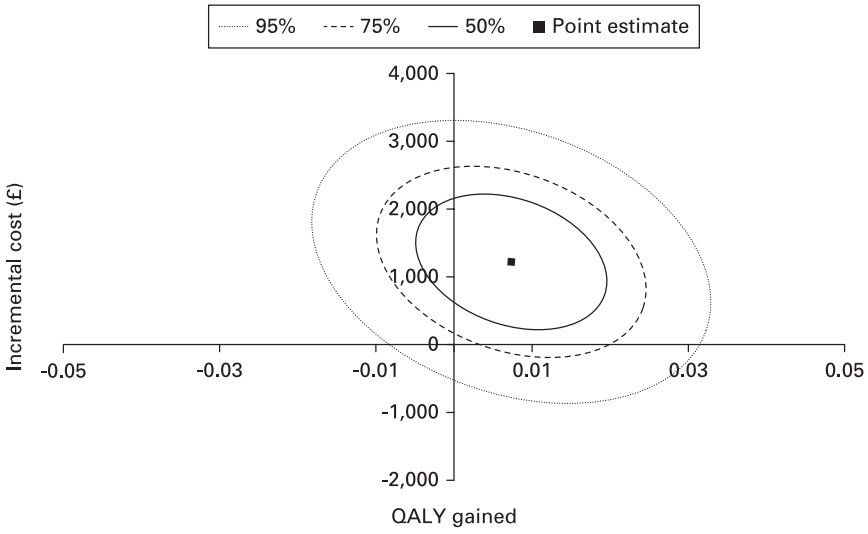


Fig. ac

Sensitivity analysis (societal perspective) of incisional negative-pressure wound therapy (iNPWT) vs standard dressing. a) Graph of net monetary benefit (NMB); b) Cost-effectiveness acceptability curve (CEAC); and c) Confidence ellipse on the cost-effectiveness plane. CI, confidence interval; QALY, quality-adjusted life year.

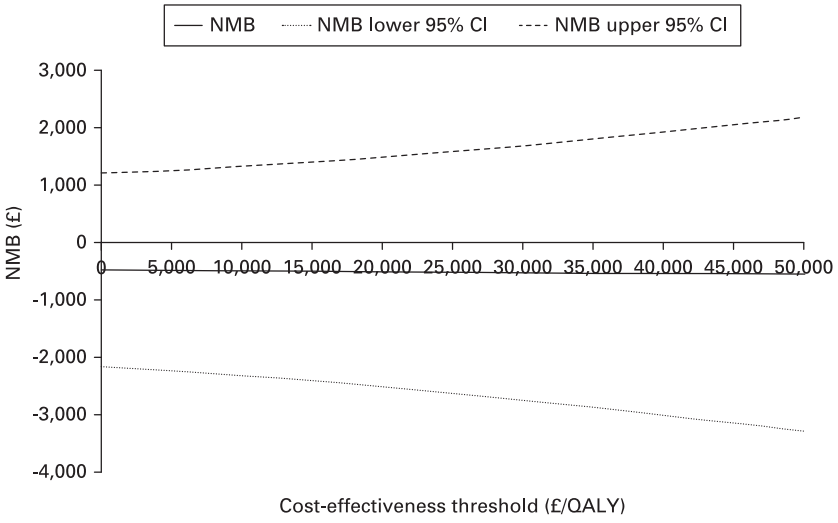


Fig. ba

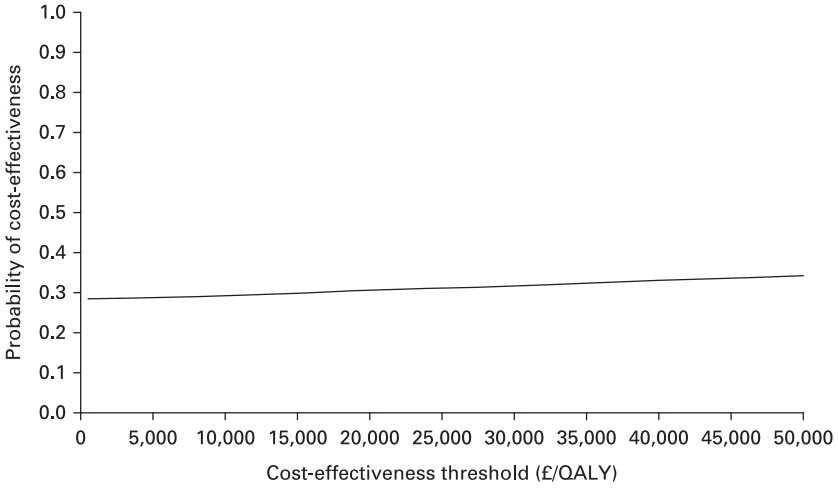


Fig. bb

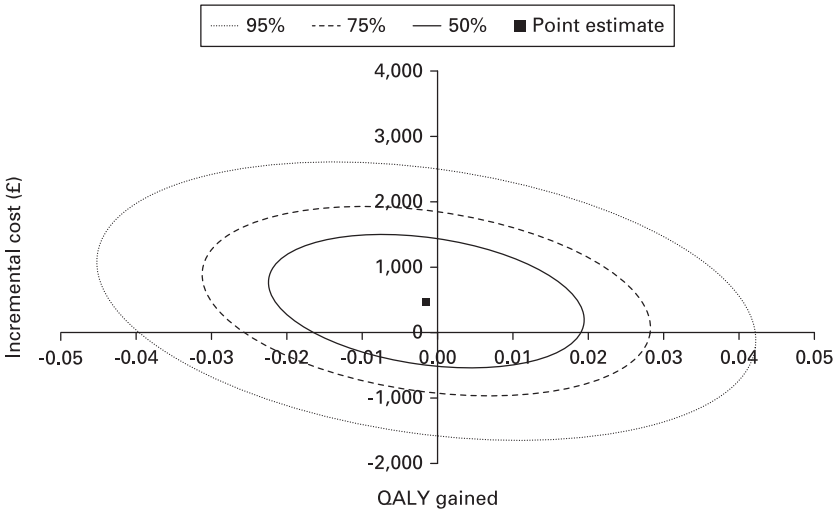


Fig. bc

Sensitivity analysis (complete case) of incisional negative-pressure wound therapy (iNPWT) vs standard dressing. a) Graph of net monetary benefit (NMB); b) Graph of cost-effectiveness acceptability curve (CEAC); and c) Graph of confidence ellipse on the cost-effectiveness plane. CI, confidence interval; QALY, quality-adjusted life year.

Table i. Summary of unit cost (in 2017/2018 £).

Resource item	Type	Unit type	Unit cost, £	Source
Direct medical cost associated with trial				
Wound management	Negative-pressure weight therapy	Each	149.52	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Standard dressing	Each	1.87	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Band 5 nurse	Hour	37	PSSRU 2018 p. 157
	Back slab cast	Each	3.31	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Full cast	Each	3.54	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Air boot/cast	Each	68.66	NHS Supply Chain Catalogue Jan 2019 (average)[1]
Hospitalization	Intensive care	Per session	759	NHS Reference Costs 2017/18: XC07Z (CCU02)[2]
	Acute trauma	Per day	346	NHS Reference Costs 2017/18 report p. 5[2]
	Rehabilitation	Per session	374	NHS Reference Costs 2017/18: VC36Z[2]
Antibiotics	Amoxicillin 500 mg	Pack of 21	1.11	BNF Jan 2019[3]
	Ceftriaxone 2,000 mg	Pack of 1	19.18	BNF Jan 2019[3]
	Cefuroxime 1,500 mg	Pack of 1	4.70	BNF Jan 2019[3]
	Chloramphenicol 1%	Pack of 4	2.02	BNF Jan 2019[3]
	Ciprofloxacin 400 mg	Pack of 10	10.00	BNF Jan 2019[3]
	Ciprofloxacin 500 mg	Pack of 10	0.93	BNF Jan 2019[3]
	Ciprofloxacin 750 mg	Pack of 10	8.00	BNF Jan 2019[3]
	Clarithromycin 250 mg	Pack of 14	1.18	BNF Jan 2019[3]
	Clarithromycin 500 mg	Pack of 7	6.72	BNF Jan 2019[3]
	Clindamycin 150 mg	Pack of 24	3.90	BNF Jan 2019[3]
	Clindamycin 300 mg	Pack of 5	29.50	BNF Jan 2019[3]
	Co-amoxiclav 250 mg	Pack of 21	1.77	BNF Jan 2019[3]
	Co-amoxiclav 500 mg	Pack of 21	2.05	BNF Jan 2019[3]
	Co-amoxiclav 625 mg	Pack of 21	2.05	BNF Jan 2019[3]
	Co-amoxiclav 1,000 mg	Pack of 10	27.50	BNF Jan 2019[3]
	Co-amoxiclav 1,200 mg	Pack of 10	10.60	BNF Jan 2019[3]
	Daptomycin 500 mg	Pack of 1	88.57	BNF Jan 2019[3]
	Dicloxacillin 500 mg	Pack of 1	0.81*	MSH 2015[4](£1:US$1.5618)
	Doxycycline 100 mg	Pack of 8	0.76	BNF Jan 2019[3]
	Flucloxacillin 250 mg	Pack of 28	1.08	BNF Jan 2019[3]
	Flucloxacillin 500 mg	Pack of 28	2.01	BNF Jan 2019[3]
	Flucloxacillin 1,000 mg	Pack of 10	49.00	BNF Jan 2019[3]
	Flucloxacillin 2,000 mg	Pack of 1	6.00	BNF Jan 2019[3]
	Fucidin 250 mg	Pack of 10	6.02	BNF Jan 2019[3]
	Gentamicin 80 mg	Pack of 20	40.17	BNF Jan 2019[3]
	Gentamicin 240 mg	Pack of 20	122.58	BNF Jan 2019[3]
	Gentamicin 360 mg	Pack of 20	174.07	BNF Jan 2019[3]
	Lymecycline 408 mg	Pack of 28	4.22	BNF Jan 2019[3]
	Meropenem 500 mg	Pack of 10	84.70	BNF Jan 2019[3]
	Meropenem 1,000 mg	Pack of 10	169.30	BNF Jan 2019[3]
	Metronidazole 400 mg	Pack of 21	2.44	BNF Jan 2019[3]
	Metronidazole 500 mg	Pack of 21	38.39	BNF Jan 2019[3]
	Phenoxymethylpenicillin 250 mg	Pack of 28	0.90	BNF Jan 2019[3]
	Rifampicin 300 mg	Pack of 100	123.89	BNF Jan 2019[3]
	Rifampicin 600 mg	Pack of 1	9.20	BNF Jan 2019[3]
	Teicoplanin 400 mg	Pack of 1	7.32	BNF Jan 2019[3]
	Vancomycin 1,000 mg	Pack of 1	11.25	BNF Jan 2019[3]
	Tazocin 4g/500 mg	Pack of 10	15.75	BNF Jan 2019[3]

Continued

Table I. Continued

Resource item	Type	Unit type	Unit cost, £	Source
Other direct medical cost				
Subsequent inpatient care	Orthopaedics: leg	LoS of 1 day	2,004	NHS Reference Costs 2017/18: HN25A[2]
	Orthopaedics: other bones	LoS of 4 days	2,990	NHS Reference Costs 2017/18: HN93Z[2]
		Per excess bed-day	365	NHS Reference Costs 2017/18: HN93Z[2]
	Rehabilitation unit	Per session	374	NHS Reference Costs 2017/18: VC36Z[2]
Outpatient care	Orthopaedics	Per session	124	NHS Reference Costs 2017/18: 110[2]
	Physiotherapist (NHS)	Per hour	38.53*	PSSRU 2015 p. 217[5]
	Physiotherapist (private)	Per hour	75	The Physio Centre website[6]
	Pathology (blood tests)	Per test	2.51	NHS Reference Costs 2017/18: DAPS05[2]
	Radiology (radiographs)	Per test	31.49	NHS Reference Costs 2017/18: DAPF[2]
	Emergency department: fracture or wound	Per session	136	NHS Reference Costs 2017/18: 180[2]
	Emergency department: others	Per session	136	NHS Reference Costs 2017/18: 180[2]
Community care	GP surgery	Per minute	4	PSSRU 2018 p. 127[7]
	GP home visit	Per minute	5.25*	PSSRU 2010 p. 167[7]
	GP phone call	7.1 minutes	27.38*	PSSRU 2015 p. 177[7]
	Practice nurse	Per hour	42	PSSRU 2018 p. 125[7]
	District nurse	Per hour	50.70*	PSSRU 2015 p. 169[5]
	Physiotherapist	Per hour	36.83*	PSSRU 2014 p. 179[8]
	Occupational therapist	Per hour	47	PSSRU 2018 p. 142[7]
	Calls to NHS 111	Per call	14	Financial Times 2017[9]
	Calls for ambulance or paramedic	Per call	7	PSSRU 2018 p. 89[7]
Medication				
Analgesic	Algesal cream 50 g	Each	2.98	PCA Oct 2018[10]
	Aspirin 75 mg	Pack of 28	0.61	BNF Jan 2019[3]
	Co-codamol 8 mg/500 mg	Pack of 100	2.63	BNF Jan 2019[3]
	Co-codamol 30 mg/500 mg	Pack of 100	4.03	BNF Jan 2019[3]
	Solpadeine 12.8 mg/500 mg	Pack of 100	3.57	BNF Jan 2019[3]
	Codeine 15 mg	Pack of 28	0.79	BNF Jan 2019[3]
	Codeine 30 mg	Pack of 28	0.94	BNF Jan 2019[3]
	Codeine 60 mg	Pack of 28	1.63	BNF Jan 2019[3]
	Co-dydramol 10 mg/500 mg	Pack of 30	0.75	BNF Jan 2019[3]
	Diclofenac 50 mg	Pack of 28	7.41	BNF Jan 2019[3]
	Voltarol 100 mg	Pack of 10	3.64	BNF Jan 2019[3]
	Dihydrocodeine 30 mg	Pack of 28	0.93	BNF Jan 2019[3]
	Fentanyl 25 mcg/hour	Pack of 5	17.99	BNF Jan 2019[3]
	Gabapentin 100 mg	Pack of 100	2.13	BNF Jan 2019[3]
	Gabapentin 300 mg	Pack of 100	4.86	BNF Jan 2019[3]
	Gabapentin 600 mg	Pack of 100	7.25	BNF Jan 2019[3]
	Ibuprofen 200 mg	Pack of 24	0.93	BNF Jan 2019[3]
	Ibuprofen 400 mg	Pack of 24	0.80	BNF Jan 2019[3]
	Ibuprofen 600 mg	Pack of 84	4.07	BNF Jan 2019[3]
	Naproxen 250 mg	Pack of 56	2.46	BNF Jan 2019[3]
	Naproxen 500 mg	Pack of 56	5.19	BNF Jan 2019[3]
	Buprenorphine 5 mcg/hour	Pack of 4	17.60	BNF Jan 2019[3]
	Buprenorphine 10 mcg/hour	Pack of 4	31.55	BNF Jan 2019[3]
	Buprenorphine 15 mcg/hour	Pack of 4	49.15	BNF Jan 2019[3]
	Meptazinol 200 mg	Pack of 112	22.11	BNF Jan 2019[3]
	Methadone 5 mg	Pack of 50	2.84	BNF Jan 2019[3]
	Methadone 30 mg	Pack of 50	139.62	PCA Oct 2018[10]
	Morphine 5 mg	Pack of 60	3.29	BNF Jan 2019[3]
	Morphine 10 mg	Pack of 60	5.20	BNF Jan 2019[3]
	Morphine 15 mg	Pack of 60	9.10	BNF Jan 2019[3]
	Morphine 20 mg	Pack of 56	10.61	BNF Jan 2019[3]

Continued

Table I. Continued

Resource item	Type	Unit type	Unit cost, £	Source
	Morphine 30 mg	Pack of 60	12.47	BNF Jan 2019[3]
	Morphine 60 mg	Pack of 60	24.32	BNF Jan 2019[3]
	Morphine 10 mg/1 ml	Pack of 10	9.36	BNF Jan 2019[3]
	Zomorph 30 mg	Pack of 60	8.30	BNF Jan 2019[3]
	Zomorph 60 mg	Pack of 60	16.20	BNF Jan 2019[3]
	Oxycodone 5 mg	Pack of 28	12.52	BNF Jan 2019[3]
	Oxycodone 10 mg	Pack of 56	25.04	BNF Jan 2019[3]
	Oxycodone 15 mg	Pack of 56	38.12	BNF Jan 2019[3]
	Paracetamol 500 mg	Pack of 100	1.56	BNF Jan 2019[3]
	Paracetamol 1,000 mg	Pack of 100	2.50	BNF Jan 2019[3]
	Tramadol 50 mg	Pack of 60	4.60	BNF Jan 2019[3]
	Tramadol 100 mg	Pack of 60	14.47	BNF Jan 2019[3]
	Tramadol 150 mg	Pack of 60	21.71	BNF Jan 2019[3]
Antibiotic	Amoxicillin 250 mg	Pack of 21	0.97	BNF Jan 2019[3]
	Amoxicillin 500 mg	Pack of 21	1.11	BNF Jan 2019[3]
	Ciprofloxacin 250 mg	Pack of 10	0.83	BNF Jan 2019[3]
	Ciprofloxacin 750 mg	Pack of 10	8.00	BNF Jan 2019[3]
	Clarithromycin 500 mg	Pack of 7	6.72	BNF Jan 2019[3]
	Clindamycin 150 mg	Pack of 24	3.90	BNF Jan 2019[3]
	Co-amoxiclav 250 mg/125 mg	Pack of 21	1.77	BNF Jan 2019[3]
	Doxycycline 100 mg	Pack of 8	0.76	BNF Jan 2019[3]
	Flucloxacillin 250 mg	Pack of 28	1.08	BNF Jan 2019[3]
	Flucloxacillin 500 mg	Pack of 28	2.01	BNF Jan 2019[3]
	Flucloxacillin 1,000 mg	Pack of 10	49.00	BNF Jan 2019[3]
	Fucidin 500 mg	Pack of 1	20.90	BNF Jan 2019[3]
	Metronidazole 500 mg	Pack of 21	38.39	BNF Jan 2019[3]
	Nitrofurantoin 50 mg	Pack of 28	8.23	BNF Jan 2019[3]
	Phenoxymethylpenicillin 250 mg	Pack of 28	0.90	BNF Jan 2019[3]
	Rifampicin 150 mg	Pack of 100	50.49	BNF Jan 2019[3]
	Teicoplanin 400 mg	Pack of 1	7.32	BNF Jan 2019[3]
	Trimethoprim 100 mg	Pack of 28	0.87	BNF Jan 2019[3]
	Trimethoprim 200 mg	Pack of 14	1.00	BNF Jan 2019[3]
Anticoagulant	Apixaban 2.5 mg	Pack of 60	57.00	BNF Jan 2019[3]
	Apixaban 5 mg	Pack of 56	53.20	BNF Jan 2019[3]
	Clopidogrel 75 mg	Pack of 28	1.47	BNF Jan 2019[3]
	Dabigatran 150 mg	Pack of 60	51.00	BNF Jan 2019[3]
	Dalteparin 2,500 units/0.2 ml	Pack of 10	18.58	BNF Jan 2019[3]
	Dalteparin 18,000 units/0.72 ml	Pack of 5	50.82	BNF Jan 2019[3]
	Edoxaban 15 mg	Pack of 10	17.50	BNF Jan 2019[3]
	Edoxaban 60 mg	Pack of 28	49.00	BNF Jan 2019[3]
	Enoxaparin 20 mg/0.2 ml	Pack of 10	20.86	BNF Jan 2019[3]
	Enoxaparin 40 mg/0.4 ml	Pack of 10	30.27	BNF Jan 2019[3]
	Rivaroxaban 10 mg	Pack of 30	54.00	BNF Jan 2019[3]
	Rivaroxaban 15 mg	Pack of 28	50.40	BNF Jan 2019[3]
	Rivaroxaban 20 mg	Pack of 28	50.40	BNF Jan 2019[3]
	Tinzaparin 4,500 units/0.45 ml	Pack of 10	35.63	BNF Jan 2019[3]
	Tinzaparin 12,000 units/0.6 ml	Pack of 10	71.40	BNF Jan 2019[3]
	Warfarin 1 mg	Pack of 28	0.53	BNF Jan 2019[3]
Antidepressant	Amitriptyline 10 mg	Pack of 28	0.99	BNF Jan 2019[3]
	Amitriptyline 25 mg	Pack of 28	0.76	BNF Jan 2019[3]
	Citalopram 10 mg	Pack of 28	0.89	BNF Jan 2019[3]
	Citalopram 20 mg	Pack of 28	1.08	BNF Jan 2019[3]
	Duloxetine 60 mg	Pack of 28	4.67	BNF Jan 2019[3]
	Fluoxetine 10 mg	Pack of 30	44.00	BNF Jan 2019[3]
	Fluoxetine 20 mg	Pack of 30	0.64	BNF Jan 2019[3]
	Mirtazapine 30 mg	Pack of 28	1.18	BNF Jan 2019[3]
	Sertraline 50 mg	Pack of 28	0.81	BNF Jan 2019[3]

Continued

Table I. Continued

Resource item	Type	Unit type	Unit cost, £	Source
	Sertraline 100 mg	Pack of 28	1.08	BNF Jan 2019[3]
Bisphosphonate	Alendronic acid 10 mg	Pack of 28	1.63	BNF Jan 2019[3]
Corticosteroid	Clobetasone 30 g	each	1.86	BNF Jan 2019[3]
Hypnotic/ anxiolytic	Chlordiazepoxide 10 mg	Pack of 100	17.80	BNF Jan 2019[3]
	Diazepam 10 mg			BNF Jan 2019[3]
	Temazepam 10 mg	Pack of 28	1.46	BNF Jan 2019[3]
	Zolpidem 10 mg	Pack of 28	0.97	BNF Jan 2019[3]
	Zopiclone 3.75 mg	Pack of 28	0.88	BNF Jan 2019[3]
	Zopiclone 7.5 mg	Pack of 28	0.89	BNF Jan 2019[3]
Antiemetic	Domperidone 10 mg	Pack of 30	0.97	BNF Jan 2019[3]
	Metoclopramide 10 mg	Pack of 28	0.55	BNF Jan 2019[3]
	Ondansetron 4 mg	Pack of 10	0.85	BNF Jan 2019[3]
Supplement	Calcium 750 mg	Pack of 112	2.95	BNF Jan 2019[3]
	Calcium 1,000 mg	Pack of 28	16.07	BNF Jan 2019[3]
	Calcium 1,250 mg	Pack of 100	9.33	BNF Jan 2019[3]
	Calcium 1,500 mg	Pack of 100	8.70	BNF Jan 2019[3]
	Glucosamine 1,500 mg	Pack of 30	18.20	BNF Jan 2019[3]
	Iron 210 mg	Pack of 84	3.50	BNF Jan 2019[3]
Vitamin	Calcitriol 250 mg	Pack of 100	18.04	BNF Jan 2019[3]
	Colecalciferol 800 units	Pack of 30	3.60	BNF Jan 2019[3]
	Colecalciferol 20,000 units	Pack of 30	29.00	BNF Jan 2019[3]
	Colecalciferol 50,000 units	Pack of 10	36.00	BNF Jan 2019[3]
	Multi-vitamin	Pack of 30	0.46	PCA Oct 2018[10]
	Thiamine 50 mg	Pack of 100	4.93	BNF Jan 2019[3]
	Thiamine 100 mg	Pack of 100	7.15	BNF Jan 2019[3]
Direct nonmedical cost				
Personal social services	Frozen meals-on-wheels	Per meal	3.17	Meals on wheels (LBM)[11]
	Hot meals-on-wheels	Per meal	6.75*	PSSRU 2014 p. 127[8]
	Laundry services	Per load	4.60	North Yorkshire County Council, 2019[12]
	Social worker	Per hour	60	PSSRU 2018 p. 139[7]
	Care worker/ help at home	Per hour	27	PSSRU 2018 p. 143[7]
Aids and adaptations	Crutch	Each	8.24	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Stick	Each	4.10	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Zimmer frame	Each	18.60	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Grab rail	Each	13.80	PSSRU 2018 p. 92
	Dressing aid	Each	7.26	NHS Supply Chain Catalogue Jan 2019 (average)[1]
	Long-handle shoe horn	Each	2.72	NHS Supply Chain Catalogue Jan 2019 (average)[1]
Indirect cost				
Lost productivity	Median wage	Per week	569	Employee earnings in the UK: 2018 (37.5 hours per week assumed)[13]

*Unit cost has been adjusted to 2017/18 prices.

BNF, British National Formulary; LBM, London Borough of Merton; LoS: length of stay; PCA, Prescription Cost Analysis; PSSRU, Personal Social Services Research Unit.

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