

SUPPLEMENTARY MATERIALS 4: ECONOMIC ANALYSIS

SM4.1 Unit cost per hour of staff time, by AfC band, UK £'s, 2020-21

AfC Band	NHS staff¹	Bank staff³	Agency staff³
2	£24 ²	£12	£14
3	£26 ²	£14	£16
4	£32	£15	£17
5	£41	£19	£22
6	£51	£23	£27
7	£62	£29	£32
8a Nursing	£70	£32	£36
8b Nursing	£82	£37	£42
8a Clinical psychology	£70		
8b Clinical psychology	£82		
Notes to Appendix x			
<ol style="list-style-type: none"> 1. NHS staff costs for Bands 4 to 8b were based on those estimated in the Unit Costs of Health and Social Care published by the Personal Social Services Research Unit. The cost per hour of NHS staff incorporates employer on costs, overheads, sick leave, training days and annual leave. 2. Staff costs for AfC Bands 1-3 were estimated using the methodology reported by the PSSRU. The cost per hour of NHS staff incorporates employer on costs, overheads, sick leave, training days and annual leave. 3. The costs of bank and agency ward staff were estimated using national guidance, price caps and toolkit for effective use of staff banks. The cost per hour to the NHS for bank and agency staff incorporates employer on costs plus agency and bank fees or costs. 			

SM4.2 Unit costs of conflict and containment episodes, UK £'s, 2020-21

Event	Unit cost City-128, 2004-5 prices	Unit cost City-128, 2020-21 prices
Verbal aggression	£23.11	£33.04
Physical aggression against objects	£38.36	£54.85
Physical aggression against others	£78.75	£112.59
Suicide attempts	N.R.	Assumed self-harm for EDITION
Self-harm	£62.52	£89.39
Smoking on the ward	£5.59	£7.99
Refusing to eat	£25.50	£36.46
Refusing to drink	£24.19	£34.59
Refusing to attend to personal hygiene	£35.02	£50.07
Refusing to get up and out of bed	£14.66	£20.96
Refusing to go to bed	£19.73	£28.21
Refusing to see workers	£23.80	£34.03
Alcohol use	£28.78	£41.15
Other substance misuse	£43.67	£62.44
Attempting to abscond	£58.31	£83.37
Absconding missing without permission	£53.75	£76.85
Absconding official report	£68.94	£98.57
Refused regular medication eventually accepted	£23.37	£33.41
Refused regular medication did not accept	N.R.	Assumed medication eventually accepted for EDITION
Refused PRN medication eventually accepted	£23.37	£33.41
Refused PRN medication did not accept	N.R.	Assumed PRN medication eventually accepted for EDITION
Demanding PRN medication	£24.09	£34.44
Given PRN medication psychotropic	£18.85	£26.95

Given IM medication enforced	£129.38	£184.98
Sent to PICU or ICA	£139.84	£199.94
Seclusion	£200.07	£286.05
Special observation intermittent	£45.89	£65.61
Special observation continuous	£138.52	£198.05
Show of force	£70.16	£100.31
Manually restrained	£145.27	£207.70
Time out	£20.43	£29.21

SM4.3 Number and costs of conflict and containment episodes per shift, UK £'s, 2020-21

Episode type	Mean number per shift	95% Confidence interval		Mean cost per shift	95% Confidence interval	
Verbal aggression						
WLT	0.00	0.00	0.00	£13	£11	£15
SWYT	1.00	1.00	1.00	£32	£28	£35
Physical aggression against objects						
WLT	0.00	0.00	0.00	£3	£2	£4
SWYT	0.00	0.00	0.00	£11	£8	£13
Physical aggression against others						
WLT	0.00	0.00	0.00	£3	£1	£4
SWYT	0.00	0.00	0.00	£15	£11	£18
Suicide attempts						
WLT	0.00	0.00	0.00	£0	£0	£0
SWYT	0.00	0.00	0.00	£2	£0	£3
Self-harm						
WLT	0.00	0.00	0.00	£1	£0	£1
SWYT	0.00	0.00	0.00	£9	£6	£11

Smoking on the ward						
WLT	0.00	0.00	0.00	£0	£0	£0
SWYT	0.00	0.00	0.00	£2	£2	£3
Refusing to eat						
WLT	0.00	0.00	0.00	£9	£8	£10
SWYT	0.00	0.00	0.00	£8	£7	£10
Refusing to drink						
WLT	0.00	0.00	0.00	£2	£2	£3
SWYT	0.00	0.00	0.00	£5	£4	£7
Refusing to attend to personal hygiene						
WLT	0.00	0.00	0.00	£4	£3	£5
SWYT	0.00	0.00	1.00	£24	£21	£26
Refusing to get up and out of bed						
WLT	0.00	0.00	0.00	£2	£1	£2
SWYT	0.00	0.00	0.00	£5	£4	£5
Refusing to go to bed						
WLT	0.00	0.00	0.00	£1	£1	£1
SWYT	0.00	0.00	0.00	£5	£4	£6
Refusing to see workers						
WLT	0.00	0.00	0.00	£2	£1	£2
SWYT	0.00	0.00	0.00	£2	£1	£3
Alcohol use						
WLT	0.00	0.00	0.00	£0	£0	£0
SWYT	0.00	0.00	0.00	£2	£1	£3
Other substance misuse						
WLT	0.00	0.00	0.00	£0	£0	£0
SWYT	0.00	0.00	0.00	£3	£1	£4
Attempting to abscond						
WLT	0.00	N.A.	N.A.	£0	N.A.	N.A.
SWYT	0.00	0.00	0.00	£8	£6	£11

Absconding, missing without permission						
WLT	0.00	0.00	0.00	£0	£0	£0
SWYT	0.00	0.00	0.00	£4	£3	£6
Absconding, official report						
WLT	0.00	N.A.	N.A.	£0	N.A.	N.A.
SWYT	0.00	0.00	0.00	£3	£2	£5
Refused regular medication eventually accepted						
WLT	0.00	0.00	0.00	£4	£3	£5
SWYT	0.00	0.00	0.00	£7	£6	£8
Refused regular medication did not accept						
WLT	0.00	0.00	0.00	£6	£6	£7
SWYT	0.00	0.00	0.00	£15	£13	£16
Refused PRN medication eventually accepted						
WLT	0.00	0.00	0.00	£1	£1	£1
SWYT	0.00	0.00	0.00	£3	£2	£4
Refused PRN medication did not accept						
WLT	0.00	0.00	0.00	£3	£2	£4
SWYT	0.00	0.00	0.00	£2	£1	£2
Demanding PRN medication						
WLT	0.00	0.00	0.00	£12	£10	£13
SWYT	0.00	0.00	0.00	£14	£12	£16
Given PRN medication, psychotropic						
WLT	0.00	0.00	0.00	£12	£11	£13
SWYT	2.00	2.00	2.00	£48	£44	£51
Given I.M. medication enforced						
WLT	0.00	0.00	0.00	£3	£1	£4
SWYT	0.00	0.00	0.00	£10	£6	£15
Sent to PICU or ICA						
WLT	0.00	0.00	0.00	£0	£0	£1
SWYT	0.00	0.00	0.00	£4	£1	£8

Seclusion						
WLT	1.00	1.00	1.00	£189	£172	£206
SWYT	0.00	0.00	0.00	£60	£49	£70
Special observation, intermittent						
WLT	0.00	0.00	0.00	£21	£18	£24
SWYT	1.00	1.00	1.00	£37	£33	£41
Special observation, continuous						
WLT	1.00	1.00	1.00	£121	£111	£131
SWYT	0.00	0.00	0.00	£37	£30	£44
Show of force						
WLT	0.00	0.00	0.00	£1	£1	£2
SWYT	0.00	0.00	0.00	£6	£4	£8
Manually restrained						
WLT	0.00	0.00	0.00	£3	£2	£4
SWYT	0.00	0.00	0.00	£19	£14	£24
Time-out						
WLT	0.00	0.00	0.00	£0	£0	£1
SWYT	0.00	0.00	0.00	£1	£1	£2

SM4.4 EQ-5D-5L domain scores

EQ-5D-5L domain	Participant's first assessment		Participant's last follow-up	
	Staff	Patient	Staff	Patient
	n/N, % (95%CI)	n/N, % (95%CI)	n/N, % (95%CI)	n/N, % (95%CI)
Mobility				
No problems	98/104, 94%(88%, 97%)	87/129, 67%(59%, 75%)	25/27, 93%(73%, 98%)	46/70, 66%(54%, 76%)
Slight problems	3/104, 3%(1%, 9%)	20/129, 16%(10%, 23%)	2/27, 7%(2%, 26%)	10/70, 14%(8%, 25%)
Moderate problems	3/104, 3%(1%, 9%)	12/129, 9%(5%, 16%)	0/27, 0%	8/70, 11%(6%, 21%)
Severe problems	0/104, 0%	8/129, 6%(3%, 12%)	0/27, 0%	5/70, 7%(3%, 16%)
Unable to walk about	0/104, 0%	2/129, 2%(<1%, 6%)	0/27, 0%	1/70, 1%(<1%, 10%)
Self-care				
No problems	104/104, 100%	100/132, 76%(68%-82%)	26/27, 96%(76%, 99%)	59/70, 84%(74%, 91%)
Slight problems	0/104, 0%	19/132, 14%(9%, 22%)	1/27, 4%(1%, 23%)	7/70, 10%(5%, 20%)
Moderate problems	0/104, 0%	9/132, 7%(4%, 13%)	0/27, 0%	3/70, 4%(1%, 13%)
Severe problems	0/104, 0%	4/132, 3%(1%, 8%)	0/27, 0%	1/70, 1%(<1%, 10%)
Unable to wash or dress	0/104, 0%	0/132, 0%	0/27, 0%	0/27, 0%
Usual activity				
No problems	100/104, 96%(90%, 99%)	75/129, 58%(49%, 66%)	26/27, 96%(78%, 99%)	44/71, 62%(50%, 73%)
Slight problems	2/104, 2%(<1%, 7%)	17/129, 13%(8%, 20%)	1/27, 4%(1%, 23%)	12/70, 17%(10%, 28%)
Moderate problems	1/104, 1%(<1%, 7%)	21/129, 16%(11%, 24%)	0/27, 0%	8/70, 11%(6%, 21%)
Severe problems	1/104, 1%(<1%, 7%)	8/129, 6%(3%, 12%)	0/27, 0%	2/70, 3%(1%, 11%)
Unable to do usual activities	0/104, 0%	8/129, 6%(3%, 12%)	0/27, 0%	5/70, 7%(3%, 16%)
Pain				
No pain/discomfort	80/104, 77%(68%, 84%)	60/131, 46%(37%, 54%)	20/27, 78%(58%, 90%)	37/71, 52%(41%, 63%)
Slight pain/discomfort	16/104, 15%(10%, 24%)	30/131, 23%(16%, 31%)	5/27, 19%(8%, 38%)	18/70, 25%(17%, 37%)
Moderate pain/discomfort	7/104, 7%(3%, 13%)	22/131, 17%(11%, 24%)	0/27, 0%	10/70, 14%(8%, 25%)
Severe pain/discomfort	0/104, 0%	10/131, 8%(4%, 14%)	0/27, 0%	6/70, 8%(4%, 18%)

Extreme pain/discomfort	1/104, 1%(<1%, 7%)	9/131, 7%(4%, 13%)	1/27, 4%(1%, 23%)	0/27, 0%
Anxiety/depression				
Not anxious/depressed	74/103, 72%(62%, 80%)	37/132, 28%(21%, 36%)	21/27, 78%(58%, 90%)	25/70, 36%(25%, 48%)
Slightly anxious/depressed	20/104, 19%(13%, 28%)	27/132, 20%(14%, 28%)	5/27, 19%(8%, 38%)	16/70, 23%(14%, 34%)
Moderately anxious/depressed	8/104, 8%(4%, 15%)	37/132, 28%(21%, 36%)	1/27, 4%(1%, 23%)	14/70, 20%(12%, 31%)
Severely anxious/depressed	1/104, 1%(<1%, 7%)	16/132, 12%(8%, 19%)	0/27, 0%	8/70, 11%(6%, 21%)
Extremely anxious/depressed	0/104, 0%	15/132, 11%(7%, 18%)	0/27, 0%	7/70, 10%(5%, 20%)