

*A population-level post-screening
treatment cost framework to help inform
vision screening choices for children
under the age of seven*

Article

Supplemental Material

Horwood, A. ORCID: <https://orcid.org/0000-0003-0886-9686>,
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Age at referral (mean screening age in years)	Orthoptist Led VA screen at 5 year	
	False +ves	Refractive error without amblyopia
Numbers per 100 children referred	5	57
Age at discharge or leaving costed service (years)	5.5	6
Years between screen and discharge	0.5	1
Typical number of visits between referral and discharge	1	3
Total number of visits of all children with this diagnosis	5	171
Mean duration of occlusion in months	n/a	n/a
Typical Annual Frequency of refraction	1	
Cost of pair of glasses (£)	50	
		50
Total cost of glasses per child to discharge (£)		
Total cost of glasses (£)		2850
Cost of a month's supply of patches or atropine (£)	20	
Cost of patches/atropine per treated child (£)		
Total cost of patches/atropine (£)		
Salary and overhead costs per visit of the treating professionals (based on one new visit + follow ups)(£)	75	
Salary & overhead costs per child to discharge	75	225
	75	275
Total cost per child to discharge		
Total cost to service of treatment	375	15675

* would pass scre

rs. Orthoptist managed (actual data from Horwood et al 2021)

Refractive error with amblyopia responding to glasses alone	Mild amblyopia (0.2 logMAR or better)	Moderate amblyopia (0.225 - 0.7 logMAR)	Dense amblymyopia (worse than 0.7 logMAR)	
24	*	10	3	99
6.5	6.8	7	7.5	
1.5	1.8	2	2.5	
4	5	6	8	Total number visits per 100 children referred
96	0	60	24	356
n/a	2	5	8	
75	90	100	125	Total cost of glasses per 100 children referred
1800	0	1000	375	6025
	40	100	160	Total cost of occlusion per 100 children referred
	0	1000	480	1480
				Total salary /consultations
300	375	450	600	2025
375	505	650	885	Total cost of treatment per 100 children referred
9000	0	6500	2655	34205

neering unless other refractive error