

Urinary tract infection in
children

Costing report

Implementing NICE guidance

August 2007

NICE clinical guideline 54



that culture and microscopy will be performed for all cases of suspected UTI. For children aged over 3 and under 16 years we have assumed that leukocyte esterase and nitrite tests will be used in the majority of cases. These future assumptions are summarised in table 9.

Table 9 Frequency of future urine-testing methods by age

Age	Urine testing methods	%
0 to <3 months	Urgent microscopy and follow up culture	100%
3 months to <3 years	Urgent microscopy and follow up culture	100%
	Leukocyte esterase and nitrite tests	0%
3 years to <16 years	Urgent microscopy and follow up culture	20%
	Leukocyte esterase and nitrite tests	80%

3.1.9 A number of unit costs for dipstick, microscopy and culture were found from a review of the literature. The unit costs are shown in table 10. An average cost for an ultrasound scan has been calculated and will be used in this cost assessment.

Table 10 Unit costs of urine testing

	Description	Unit Cost, £	Source
Dipsticks	Nitrite	0.13	Whiting P et al (2006)
	Leucocyte esterase (LE)	0.13	Whiting P et al (2006)
	Nitrite/LE	0.13	Whiting P et al (2006)
Microscopy	Pyuria	8	Whiting P et al (2006)
	Bacteriuria	8	Whiting P et al (2006)
	Pyuria/bacteriuria	16	Whiting P et al (2006)
Culture	Dipslide culture	2.6	Whiting P et al (2006)
	Laboratory culture	2.6	Whiting P et al (2006)

3.1.10 The guideline recommends clean catch as the preferred means of urine collection. Several studies have examined the way in which urine samples are currently collected. It is suggested that between 23% (Van der Voort 1997) and 33% (Verrier Jones et al. 2000) of samples are collected by clean catch or mid-stream urine. This