

Spectrum of non-trauma urologic emergencies in eleven (11) urology centres in Ghana: a cross-sectional study

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Content

Annex 1: calculation of the annual LUTO-related catheterization rates, in the eleven-centre 2017 non-trauma urologic emergency study in Ghana



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Measure/category	Numerator	Denominator	How denominator was obtained	Calculation	Resulting annual rate
Ghana total population	-	28,956,587	GSS GLSS7 projected 2017 population based on the 2010 population and housing census	-	-
Male population	-	14,034,443	28,956,587 x 48.5%	28,956,587 x 0.485	14,034,443
Female population	-	14,922,144	28,956,587 x 51.5%	28,956,587 x 0.515	14,922,144
All catheterizations	1,294	28,956,587	Total GSS projected population	$1,294 \div 28,956,587 \times 100,000$	4.47 per 100,000 population/year
Urethral catheterizations	1,096	28,956,587	Total GSS projected population	$1,096 \div 28,956,587 \times 100,000$	3.79 per 100,000 population/year
Suprapubic catheterizations	198	28,956,587	Total GSS projected population	$198 \div 28,956,587 \times 100,000$	0.68 per 100,000 population/year
All catheterizations - male population denominator	1,294	14,034,443	28,956,587 x 48.5% male	$1,294 \div 14,034,443 \times 100,000$	9.22 per 100,000 males/year
Urethral catheterizations - male denominator	1,096	14,034,443	28,956,587 x 48.5% male	$1,096 \div 14,034,443 \times 100,000$	7.81 per 100,000 males/year
Suprapubic catheterizations - male denominator	198	14,034,443	28,956,587 x 48.5% male	$198 \div 14,034,443 \times 100,000$	1.41 per 100,000 males/year
Notes: numerators are from the reported 2017 LUTO intervention dataset: 1,096 urethral and 198 suprapubic catheterizations, giving 1,294 catheterizations in total. Rates are expressed per 100,000 population per year. The male-specific rates use the GSS-reported 48.5% male population share. The GSS GLSS7 report gives the projected population as 28,956,587 (approximately 29.0 million) and reports a sex distribution of 48.5% male and 51.5% female. (Ghana Statistical Service)					