

# Clinical Quality Measures

INDICATOR	NUH & TTSH BASELINE RATE	INTERNATIONAL RATE
<b>CARDIAC</b>		
Ami aspirin at discharge	100%	63.24% (RAND 2003)
Ami beta blocker at discharge	91.7 - 100%	63.91% (RAND 2003)
Heart failure 30-day mortality	0.6 - 2.2%	10% (Swedish Journal)
Heart failure 6-month rehospitalisation rate	27.4 - 31.3%	29 - 59%
Average length of stay for heart failure	3.76 - 5 days	6.2 days (ADHERE Registry)
<b>COLORECTAL SURGERY</b>		
Anastomotic leakage after anterior and low anterior resection, for rectal cancer	2 - 4%	5%
<b>CTVS</b>		
Cardiac operative mortality of low risk group (Euro Score 0-2)	0% (NUH)	0 - 3.07% (EuroScore)
Cardiac operative mortality of medium risk group (Euro Score 3-5)	5.26% (NUH)	1.72 - 39.5% (EuroScore)
<b>ENDOCRINE SURGERY</b>		
Permanent hypoparathyroidism after total thyroidectomy	3%	4%
Permanent recurrent laryngeal nerve palsy after total thyroidectomy	≤1%	3%
Recurrent hyperparathyroidism after total parathyroidectomy and autotransplantation	4%	5%
Conversion of laparoscopic adrenalectomy to open surgery	2%	4%
<b>HAND &amp; RECONSTRUCTIVE MICROSURGERY</b>		
Elective microsurgery success rate	90% (NUH)	90%
<b>HPB SURGERY</b>		
Anastomotic leakage after gastrectomy (within 14 days) for stomach cancer	3.8 - 4.0%	8%
Successful weight loss after laparoscopic gastric banding	70% (NUH)	70 - 80%
<b>MICU</b>		
Ventilator associated pneumonia (VAP)	1.54% (NUH)	5.4% per thousand ventilator days (NNIS pooled mean 2005)
<b>MINIMALLY INVASIVE SURGERY</b>		
Recurrence of inguinal hernia after laparoscopic hernia repair	3.0 - 4.9%	2 - 10%
Conversion of laparoscopic incisional / ventral hernia repair	8% (NUH)	15%
<b>NEUROLOGY</b>		
Inpatient stroke mortality	4% (NUH)	10% (Cleveland Clinic)
Inpatient stroke complications - UTI, Decubitus Ulcer, Pneumonia, GI Bleeding, DVT, PE	8% (NUH)	< 20%
<b>OBSTETRICS &amp; GYNECOLOGY</b>		
The proportion of babies born with an apgar score of four or below at five minutes post delivery	<0.19% (NUH)	0.6% (2002-2003; ACHS, 5th edition)
IVF success rate	26% (NUH)	20 - 30%
<b>OPHTHALMOLOGY</b>		
Visual outcome after cataract surgery (6/12 or better after surgery without comorbidity)	95 - 99.59%	95%
Refractive surgery outcomes visual acuity and best corrected vision	75 - 100%	≥ 75%
<b>PAEDIATRICS</b>		
Paediatric liver transplant	1 yr = 85.7% & 5 yrs = 81.8% (NUH)	80 - 85% for 1 yr survival (Journal: pediatric liver transplant programme at the University Catholique de Louvain, Cliniques Saint-Luc, Brussels and An analysis of liver transplant experience from 37 transplant centres as reported to Medicare)
Outcome of chemotherapy in childhood ALL	75% at 5 yrs survival rate (NUH)	75%
Outcome of chemotherapy in childhood AML	55% at 5 yrs survival rate (NUH)	45 - 50%
<b>RADIATION ONCOLOGY</b>		
Breast cancer local control	97% at 2 yrs (NUH)	95% at 5 yrs (Clinical Trial Data)
Nasopharynx cancer local control	90% at 2 yrs (NUH)	90% at 5 yrs (Clinical Trial Data)
<b>UROLOGY</b>		
Blood transfusion post TURP (transurethral resection of the prostate)	0 - 2%	5%
ESWL stone success rate	>80% (TTSH)	75%
Conversion of laparoscopic nephrectomy to open surgery	5% (TTSH)	5%

\*NUH: National University Hospital / TTSH: Tan Tock Seng Hospital