

INVESTEC HEALTHCARE CONFERENCE

10 MARCH 2017

RONNIE VAN DER MERWE

CHIEF CLINICAL OFFICER

AGENDA

- 1.) GEOGRAPHICAL DIFFERENCES
- 2.) FOCUS ON CLINICAL PERFORMANCE
- 3.) GENERAL HEALTHCARE TRENDS
- 4.) CHALLENGES

GEOGRAPHICAL DIFFERENCES

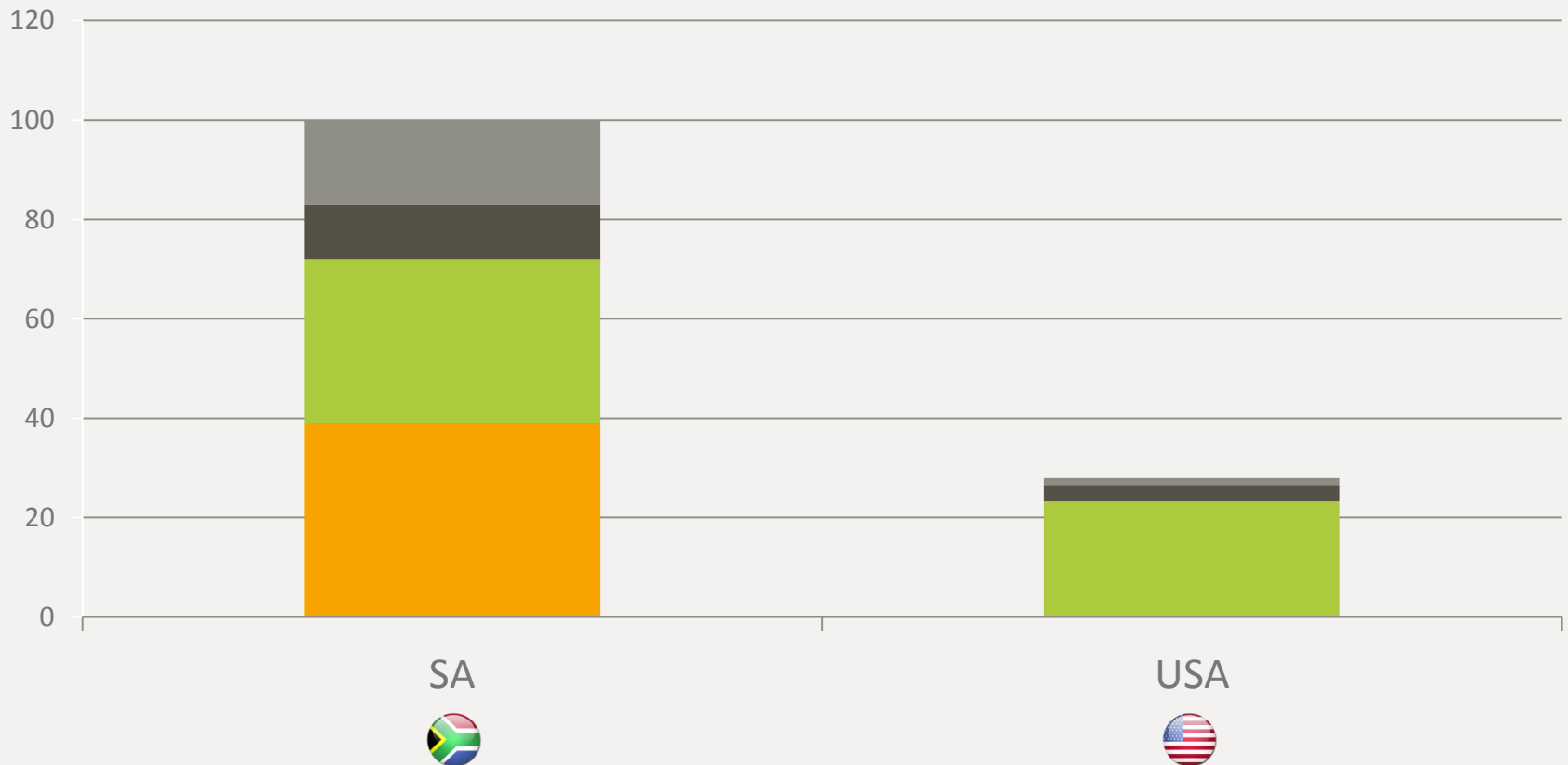
GEOGRAPHICAL DIFFERENCES

Operations	Southern Africa	Switzerland	UAE
Spectrum of services	Full	Selective	Community
Out-patient activities	-	✓	✓✓✓
Burden of disease	Age, Lifestyle Trauma, Infections	Age, Lifestyle, Cancer	Lifestyle, Cancer
Employment of doctors	Not	Partly	Majority
Rad, Lab, Cancer	Outsourced	Owned	Owned
LOS	4.0	5.0	3.0
Case mix index	1.2	1.5	1.0
Mortality	1.2%	1.0%	0.3%

SA's BURDEN OF DISEASE

Burden of disease
(Indexed, SA = 100)

■ HIV / AIDS ■ NCDs ■ Injuries ■ Other



SA has a burden of disease 3 times higher than the US,
with a far higher prevalence of HIV/AIDS

GEOGRAPHICAL DIFFERENCES

Tariffs	Southern Africa	Switzerland	UAE
FFS	✓✓✓	✓✓	✓✓✓
Per diems	✓		
Fixed fees	✓		
Bundled payments		✓✓	✓✓
DRGs		✓✓✓	✓✓✓

GEOGRAPHICAL DIFFERENCES

	DELIVERY: Private	DELIVERY: Public
FUNDING: Private	South Africa Switzerland UAE	Switzerland UAE
FUNDING: Public	Switzerland UAE	South Africa Switzerland UAE

CLINICAL PERFORMANCE

BLOOMBERG HEALTHCARE SYSTEM

EFFICIENCY INDEX

- Life **expectancy**
- Relative **cost** – as % of GDP
- Absolute **cost** – \$ per capita

BLOOMBERG HEALTHCARE SYSTEM

EFFICIENCY INDEX

	UAE	SWITZERLAND		SA*	WORLD
Life expectancy	77.37	82.37		56.74	71.4
Relative cost %	3.64	11.66		8.93	9.95
Absolute cost	\$1,611	\$9,674		\$649	\$1061
Ranking	9	14		*	*

CLINICAL PERFORMANCE

- Patient Safety and IPC
- Effectiveness of Care
- Cost – efficiency
- Value – based Care

CLINICAL PERFORMANCE INDICATORS

	MCSA	MCME	Hirslanden
Patient safety	9	5	2
IPC	25	24	7
Effectiveness	34	5	5
IQM	-	-	44
Obstetric dashboard	17	-	-
VON	45	45	-
Total	130	79	58

CLINICAL INDICATOR HEAT MAP

CLINICAL INDICATOR REPORT MEDICLINIC SOUTHERN AFRICA 12 MONTHS RESULTS FOR THE PERIOD ENDING: JANUARY 2017

SECTION A: HOSPITAL OVERVIEW OF SELECTED CLINICAL INDICATORS

PATIENT SAFETY INFORMATION

Clinical Quality Indicator	Benchmark	MCSA	UNIDENTIFIED INDIVIDUAL HOSPITALS																													
Targeted Nursing Sensitive Indicators																																
Medication Errors per 1,000 PD		1.22	[Heat Map Data]																													
Falls (with/without injuries) per 1,000 PD		1.06	[Heat Map Data]																													
Falls (with injuries) per 1,000 PD		0.33	[Heat Map Data]																													
Hosp. Assoc. Skin Lesions per 1,000 PD		2.66	[Heat Map Data]																													
Hosp. Assoc. Pressure Ulcers per 1,000 PD		0.26	[Heat Map Data]																													
Never Events Reported																																
Foreign Object(s) Left Behind in Patient	0	8	[Heat Map Data]																													
Incorrect Patient (Correct Surgery)	0	1	[Heat Map Data]																													
Incorrect Surgery (Correct Patient)	0	2	[Heat Map Data]																													
Surgery On Wrong Side/Site Performed	0	10	[Heat Map Data]																													

INFECTION PREVENTION & CONTROL

Overall Infection Control Indicators																																
Hand Hygiene Compliance Rate (%)		75%	[Heat Map Data]																													
Healthcare Ass. Infection Rate per 1,000 PD		1.85	[Heat Map Data]																													
Targeted Infections (Overall Indicators)																																
VAP Rate per 1,000 Ventilator Days		4.84	[Heat Map Data]																													
CLABSI Rate per 1,000 Central Line Days		2.39	[Heat Map Data]																													
CAUTI Rate per 1,000 Urinary Catheter Days		2.35	[Heat Map Data]																													
Surgical Site Infection per 1,000 Oper. Cases		2.61	[Heat Map Data]																													
Antimicrobial Stewardship																																
Undesired Prophylaxis Rate (%)		5.6%	[Heat Map Data]																													
Multicover Rate per 1,000 PD		2.30	[Heat Map Data]																													
Prolonged Treatm. Rate per 1,000 Exp.		6.87	[Heat Map Data]																													
Colistin Usage (DDD's) per 1,000 PD		4.12	[Heat Map Data]																													

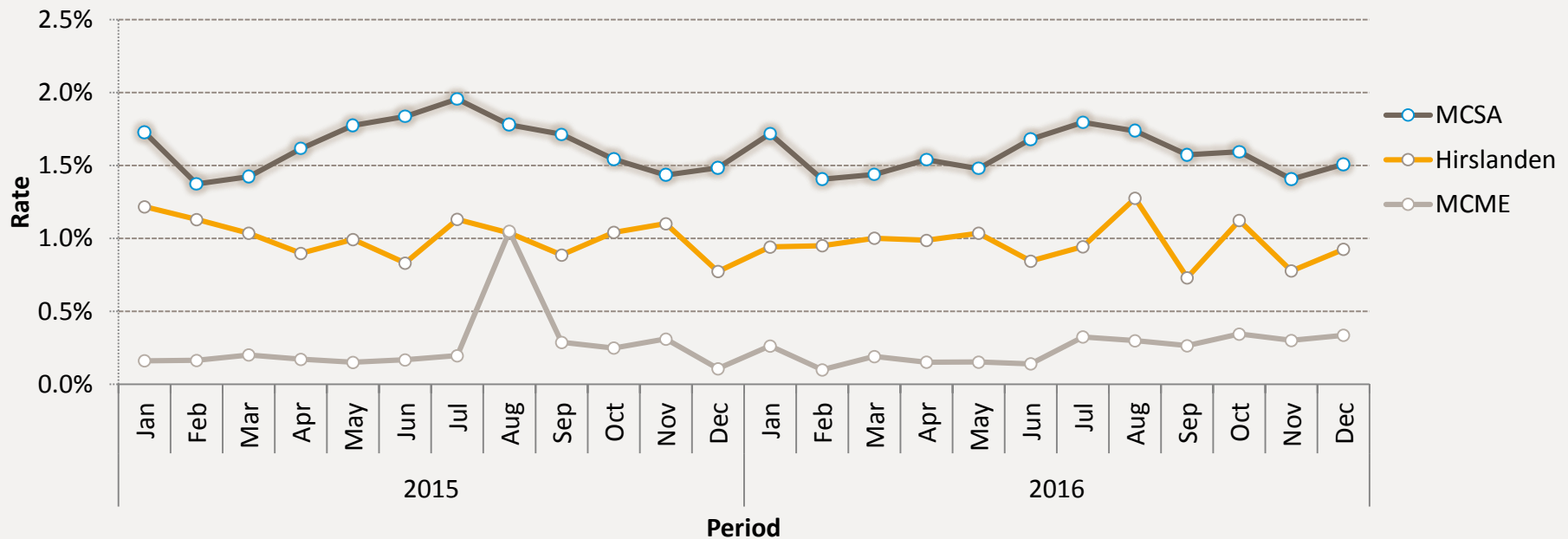
CLINICAL EFFECTIVENESS INDICATORS

Overall Mortality Indicators																																
Inpatient Mortality Index	< 1.00	0.96	[Heat Map Data]																													
Surgical Mortality Rate (%)		0.6%	[Heat Map Data]																													
Neonatal Mortality Rate (%)		2.2%	[Heat Map Data]																													
Maternal Mort. Rate per 100,000 Live Births	< 38.0	55.2	[Heat Map Data]																													
Emergency Centre Mortality Rate (%)		0.1%	[Heat Map Data]																													
Readmission Rate Indicators																																
30-Day Overall Readmission Rate (%)		12.5%	[Heat Map Data]																													
Length of Stay Indicators																																
Extended/Prolonged Stay Index	< 1.00	1.13	[Heat Map Data]																													

CLINICAL SERVICES

INPATIENT MORTALITY RATE

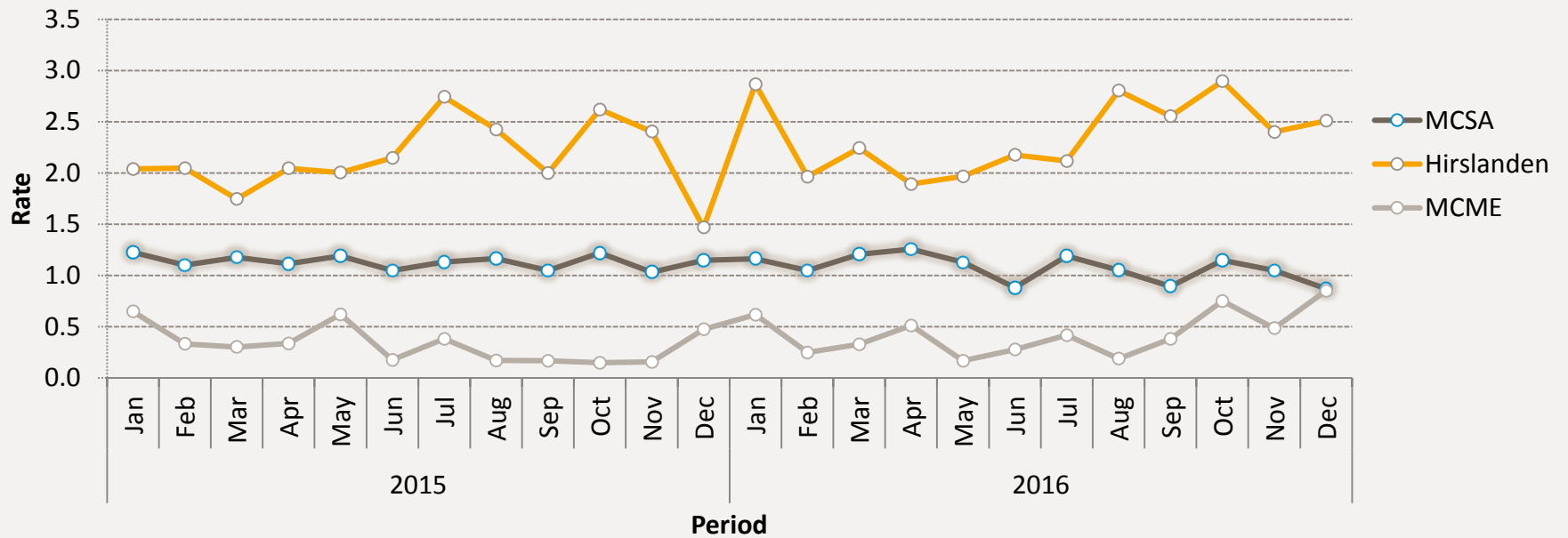
INPATIENT MORTALITIES/ADMISSIONS (%)



CLINICAL SERVICES

PATIENT FALLS

RATE PER 1,000 PATIENT DAYS

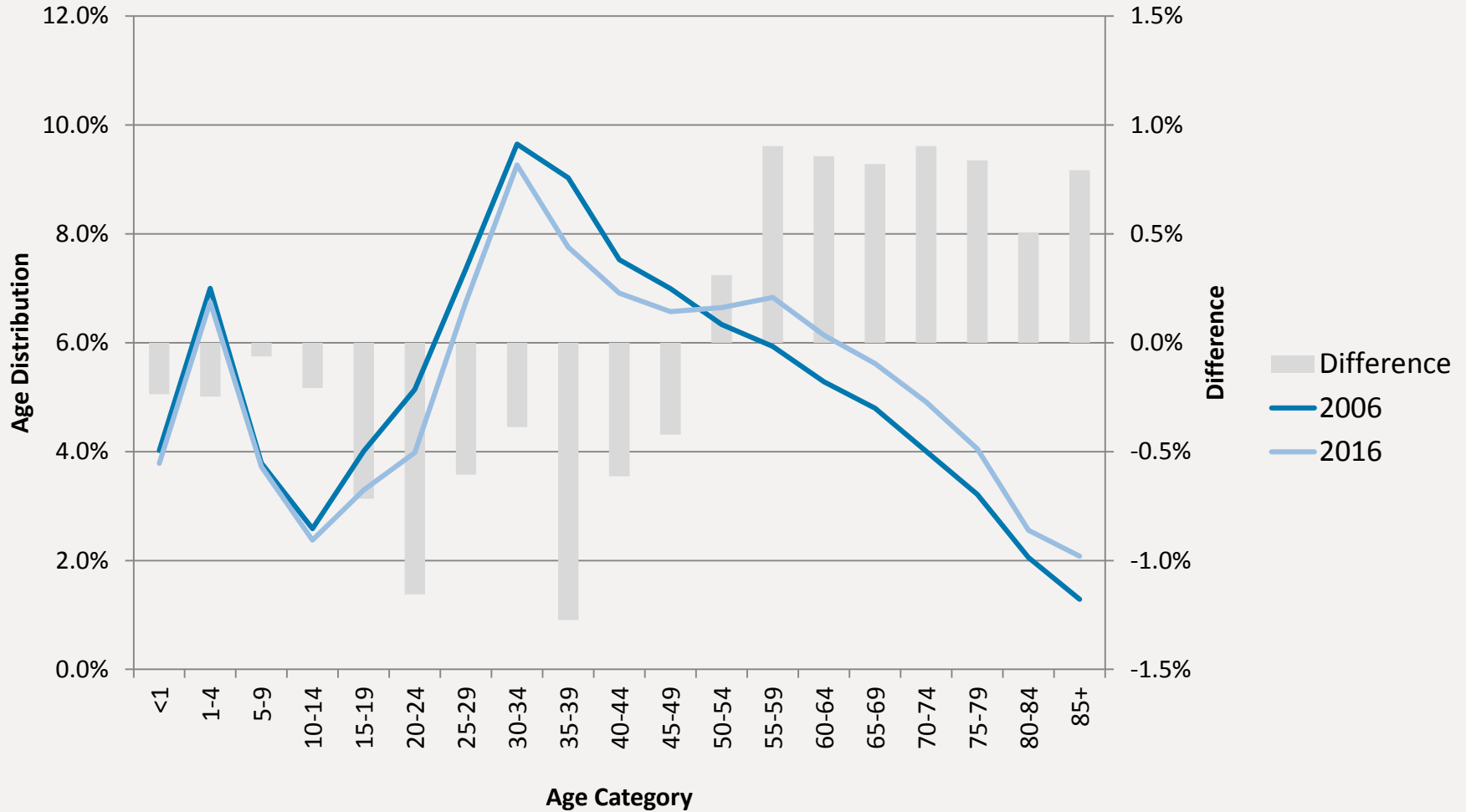


TRENDS

AGEING POPULATION

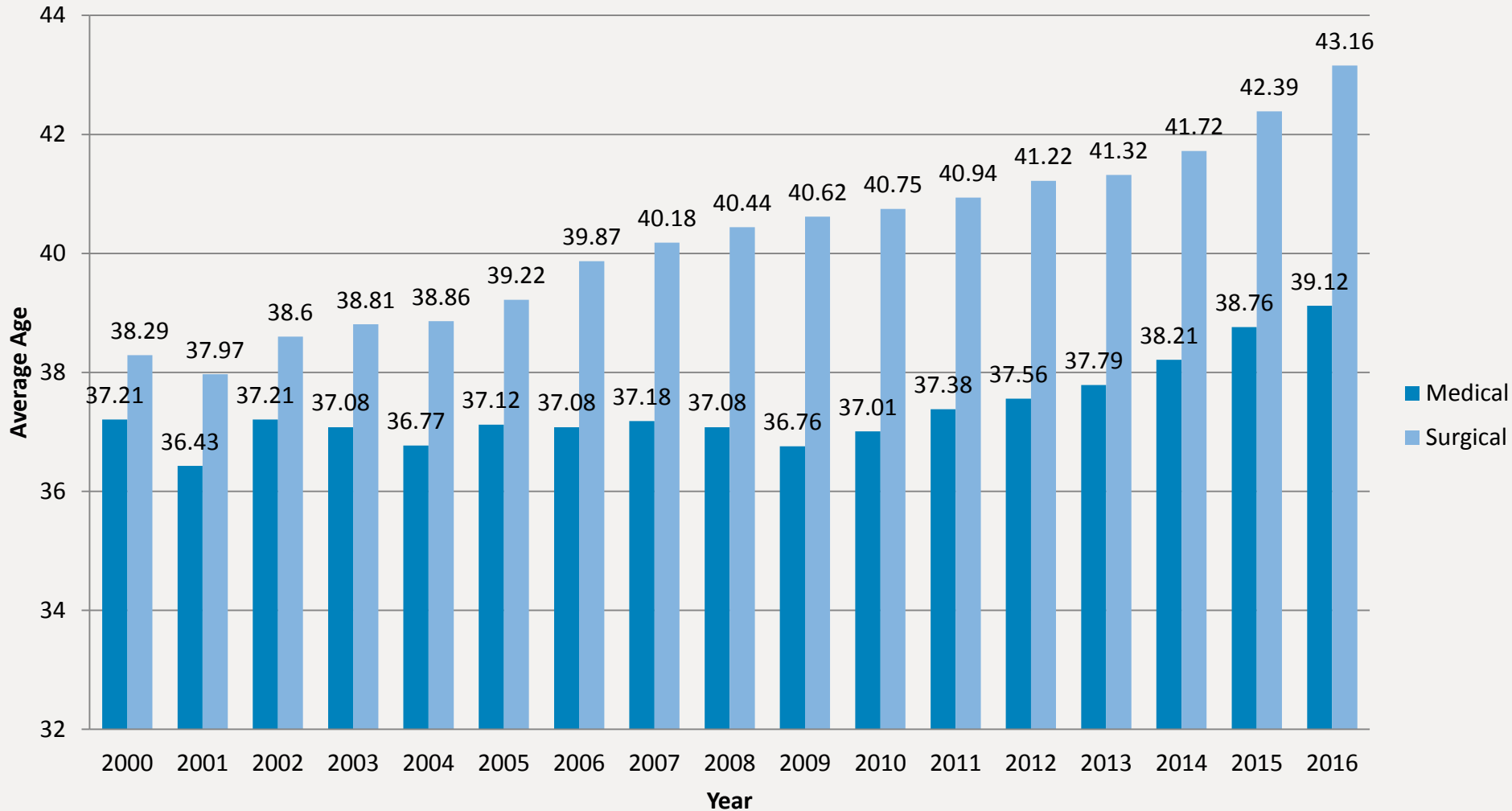
MEDICLINIC SOUTHERN AFRICA

AGE DISTRIBUTION CHANGES: 2006 vs. 2016



MEDICLINIC SOUTHERN AFRICA

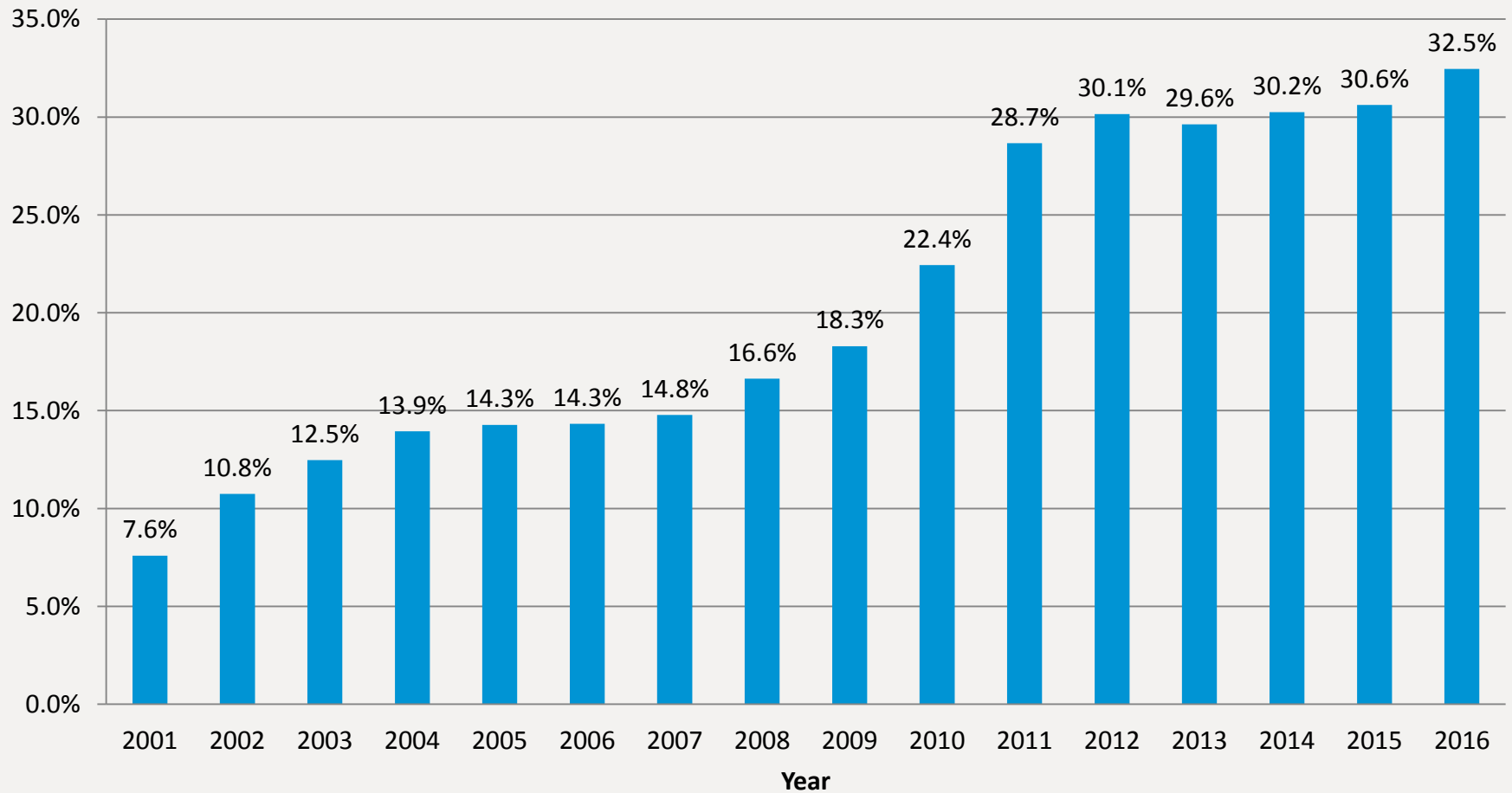
AVERAGE PATIENT AGE WITH MEDICAL/SURGICAL SPLIT



LIFESTYLE

MEDICLINIC SOUTHERN AFRICA

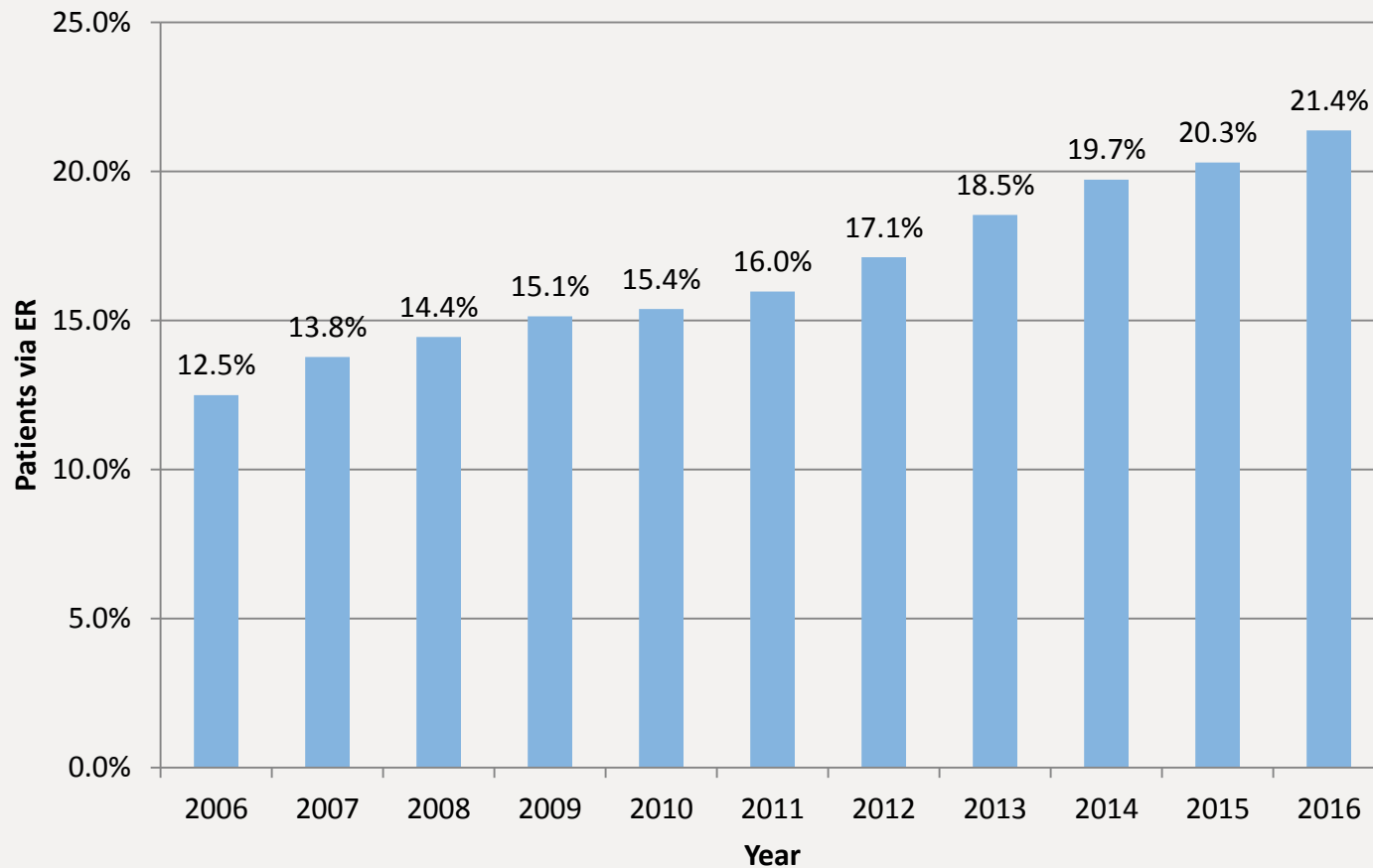
PROPORTION OF ADMISSIONS WITH A CHRONIC DISEASE CODE



TRAUMA

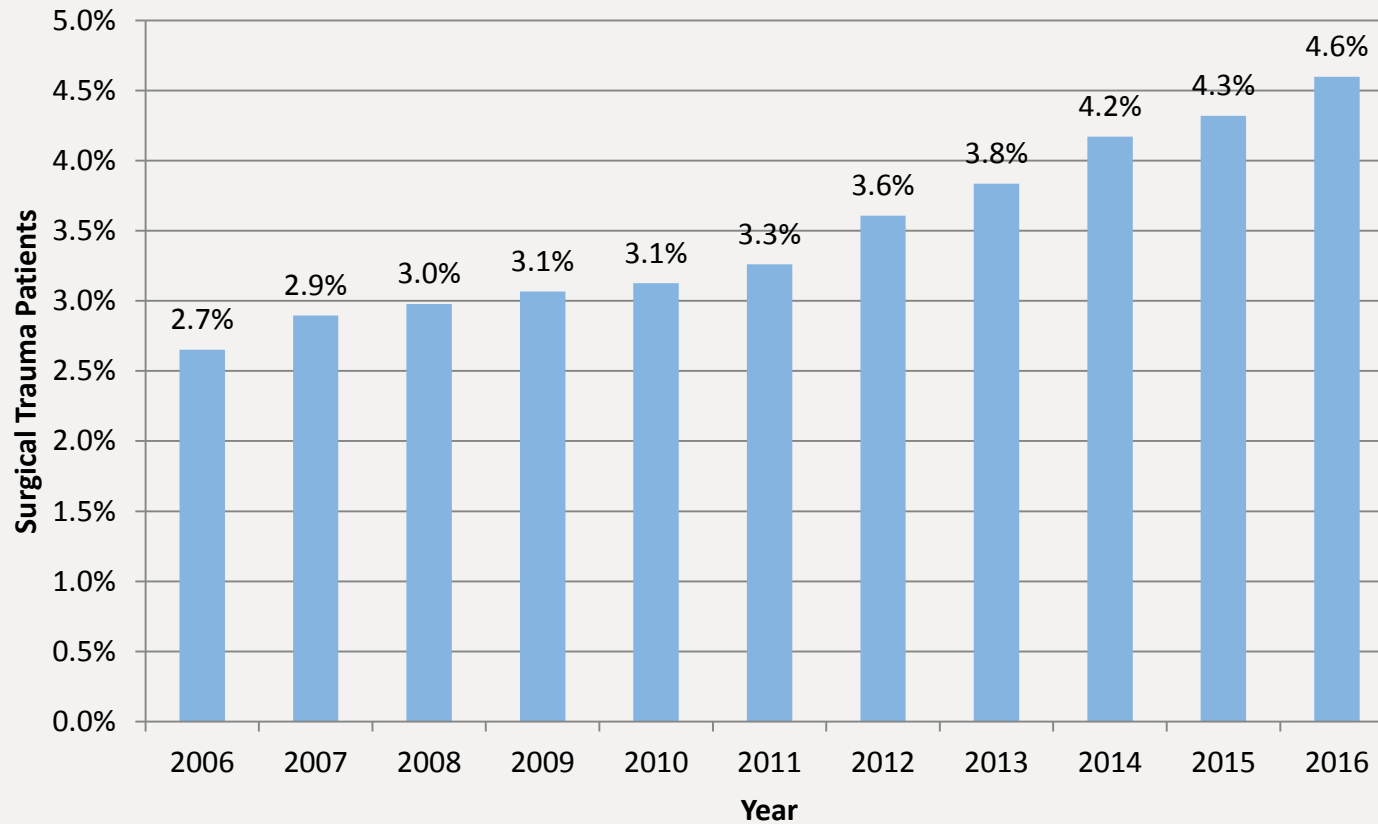
MEDICLINIC SOUTHERN AFRICA

PATIENTS VIA EMERGENCY UNIT (2006 – 2016)



MEDICLINIC SOUTHERN AFRICA

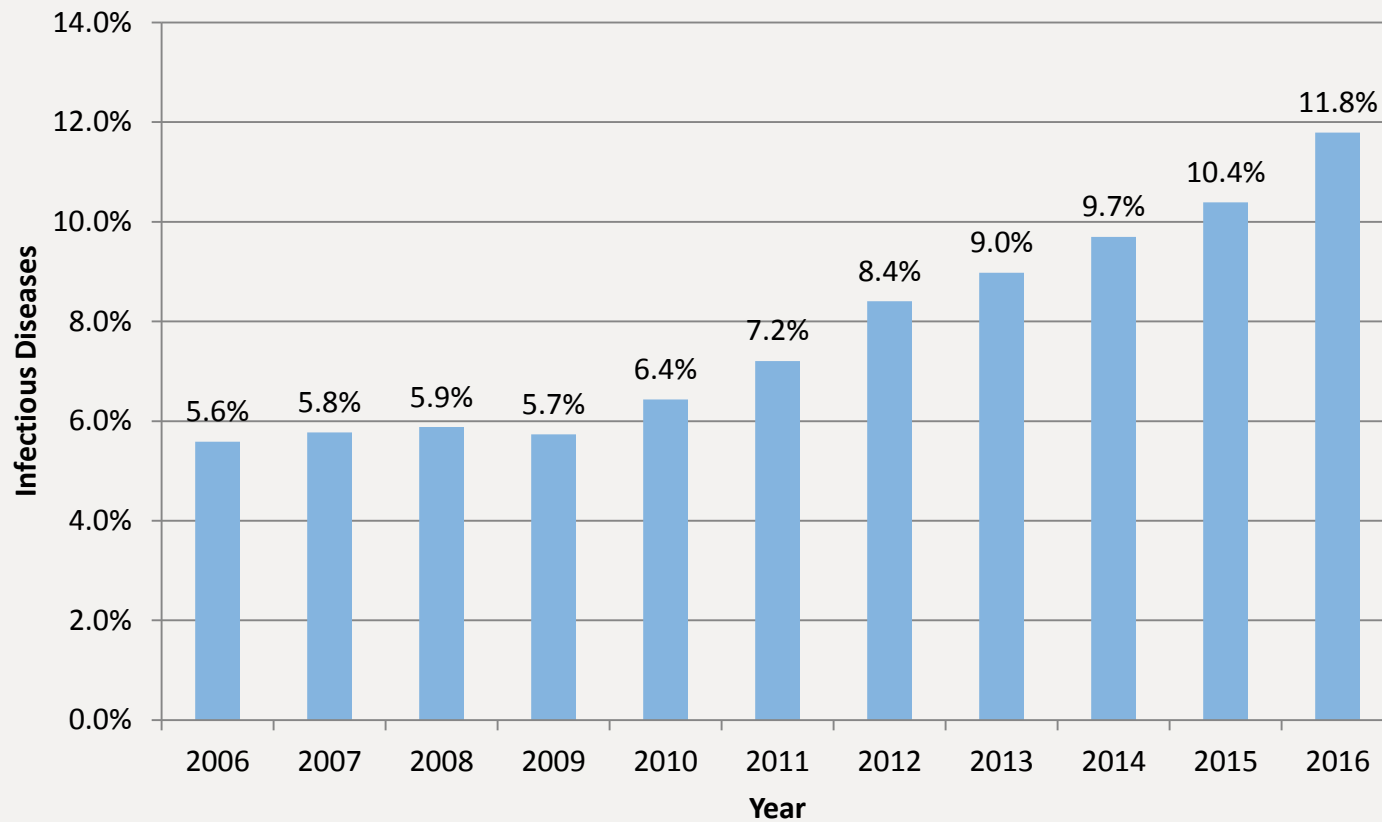
SURGICAL TRAUMA PATIENTS (2006 – 2016)



INFECTIONS

MEDICLINIC SOUTHERN AFRICA

INFECTIOUS & PARASITIC DISEASES (2006 – 2016)



NEW MEDICAL TECHNOLOGY

NEW TECHNOLOGY

Current diagnostics and treatments

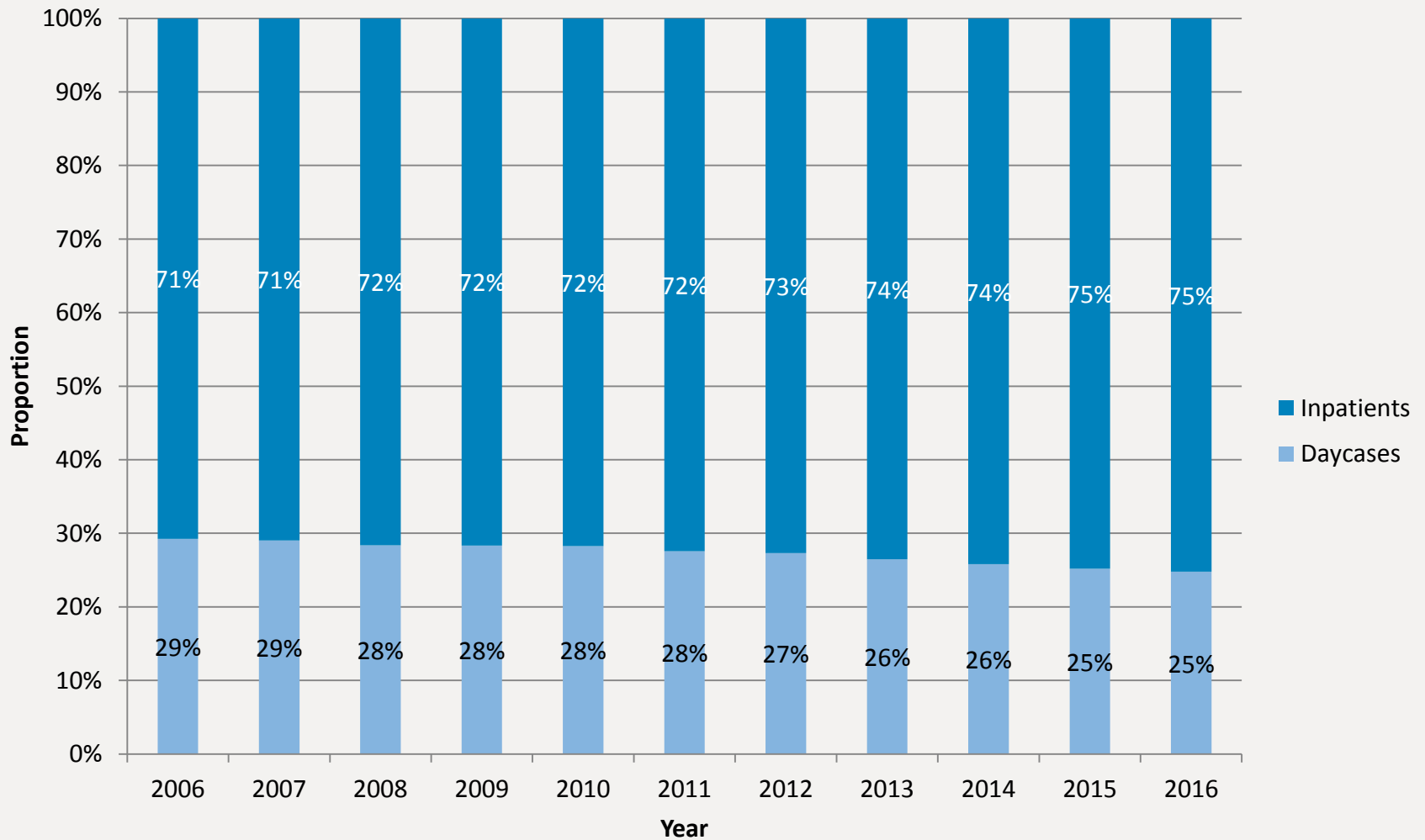
- Safer
- Quicker
- Less invasive, less tissue damage
- Less pain and discomfort
- More accurate
- Faster recovery

New diagnostics and treatments

- More access for high risk patients

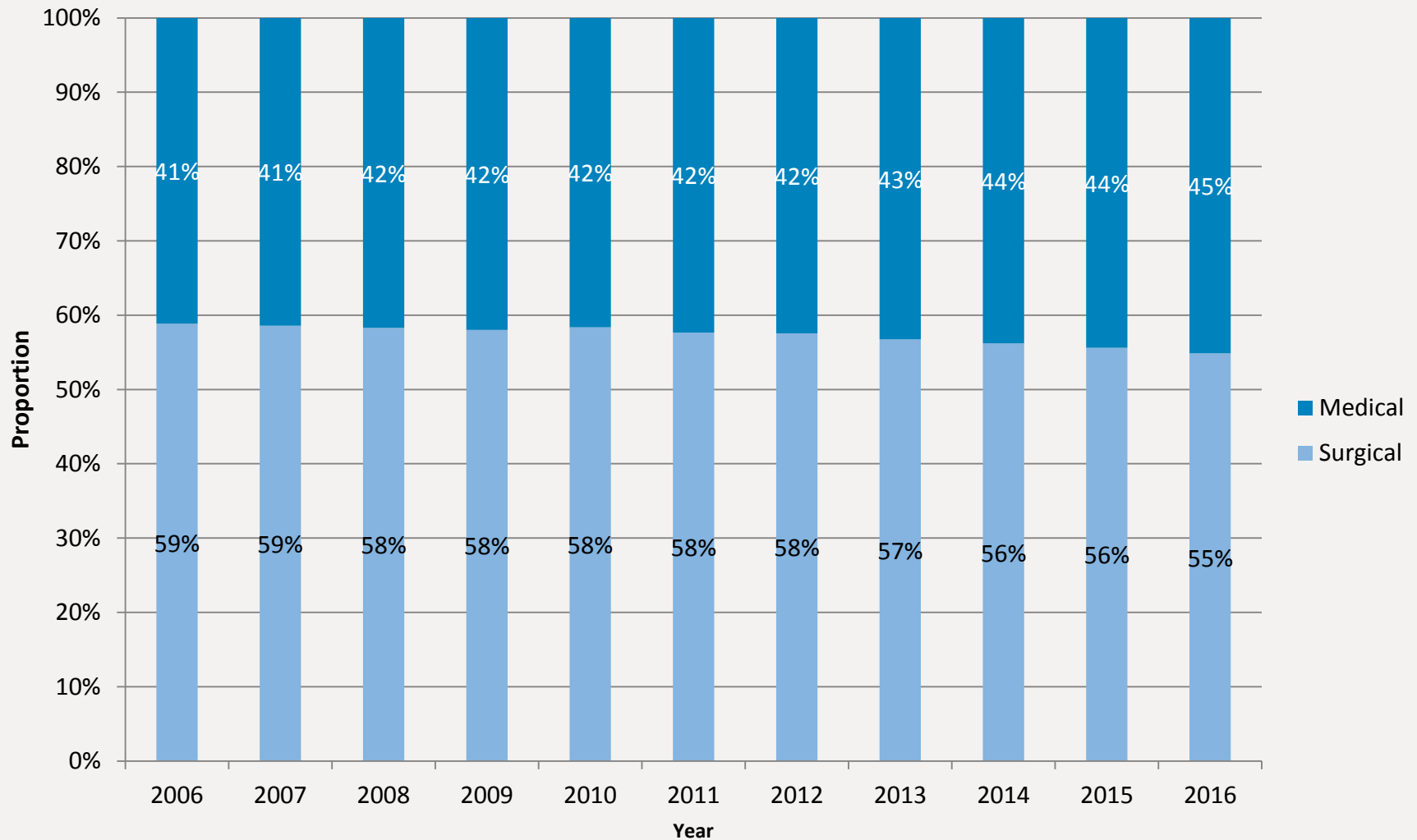
MEDICLINIC SOUTHERN AFRICA

DAYCASE/INPATIENT SPLIT (2006 – 2016)



MEDICLINIC SOUTHERN AFRICA

MEDICAL/SURGICAL SPLIT (2006 – 2016)



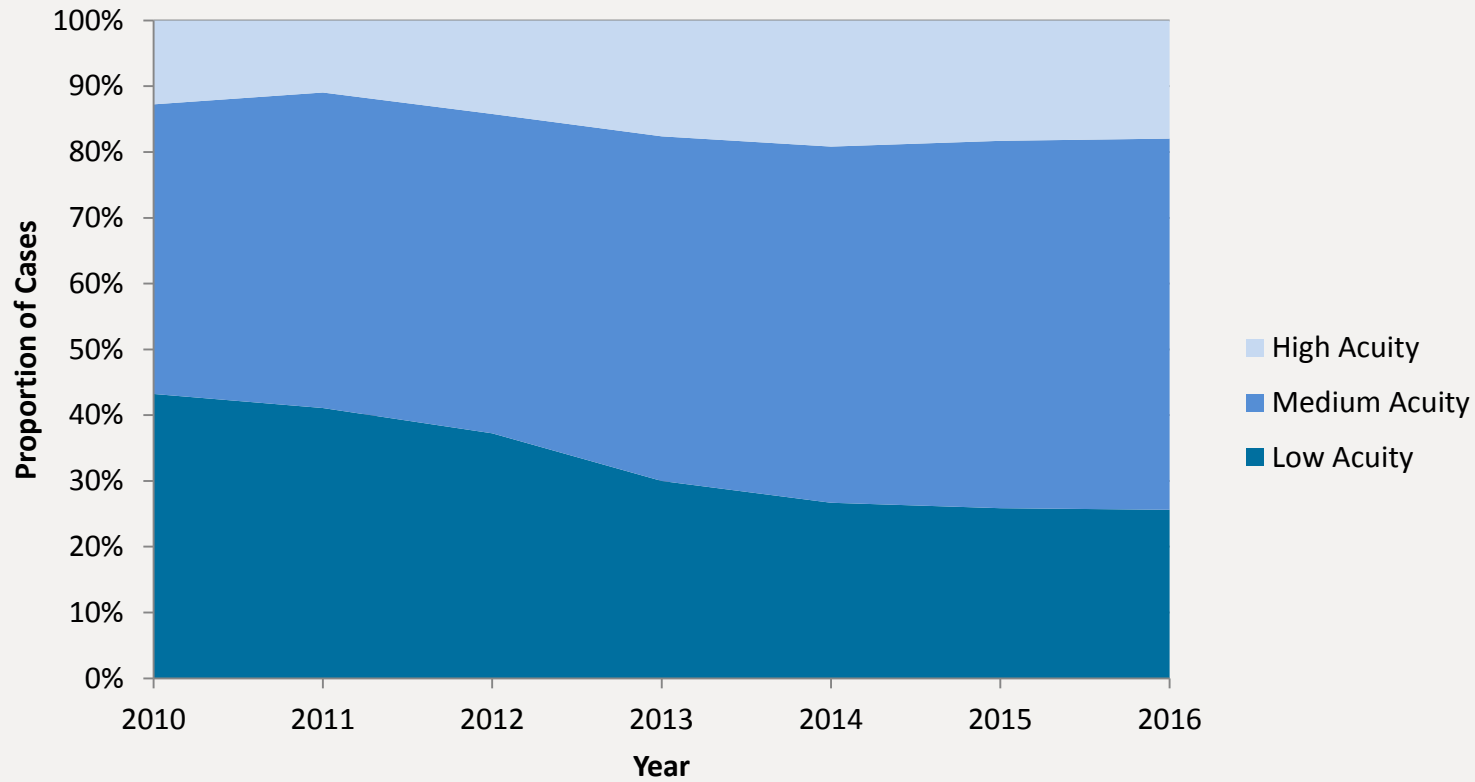
PROSTATECTOMY

	TRADITIONAL	DA VINCI
Theatre time	142	266
LOS	5.5	2.5
Cost	1 x	2 x

HIGHER CASE MIX

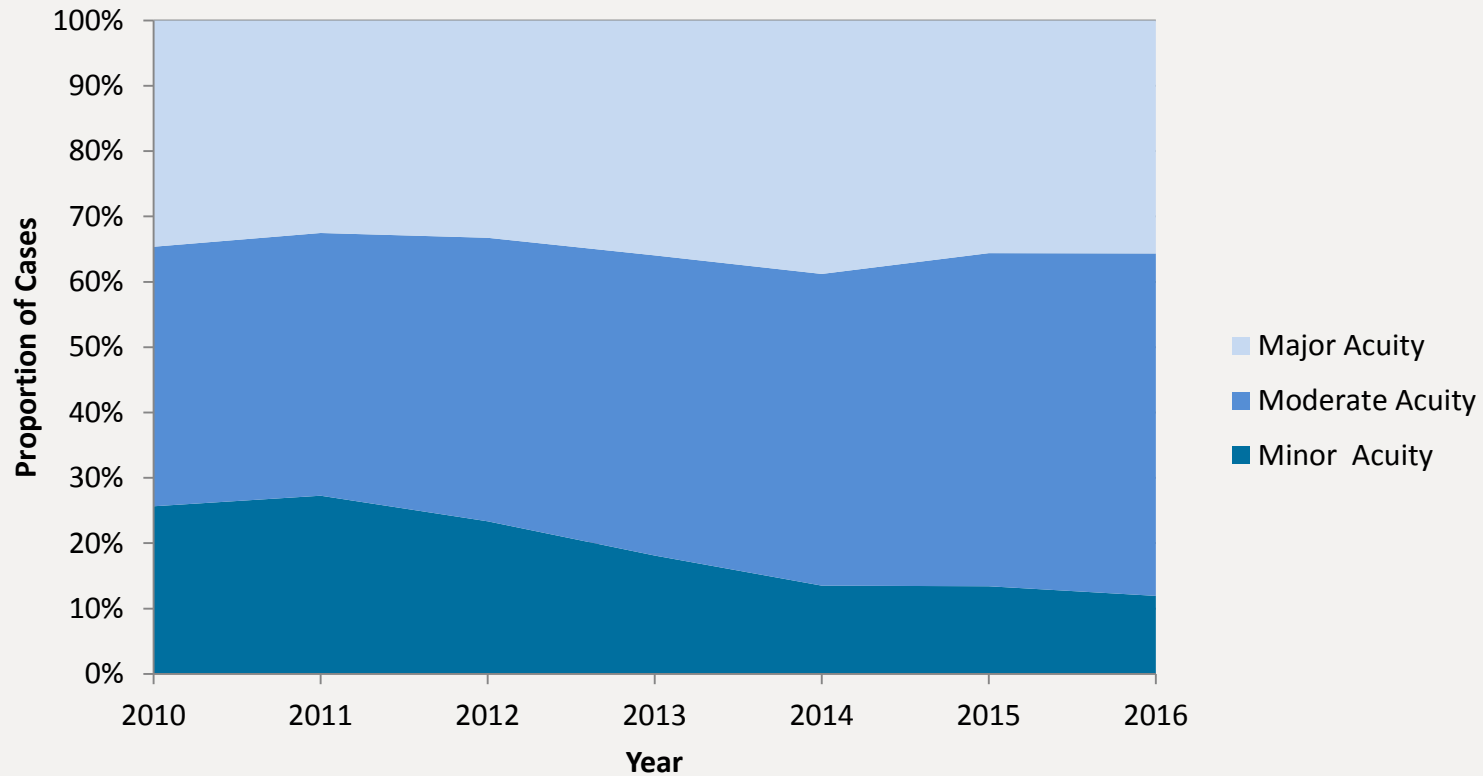
MEDICLINIC SOUTHERN AFRICA

ISM ACUITY LEVEL DISTRIBUTION – GENERAL UNITS



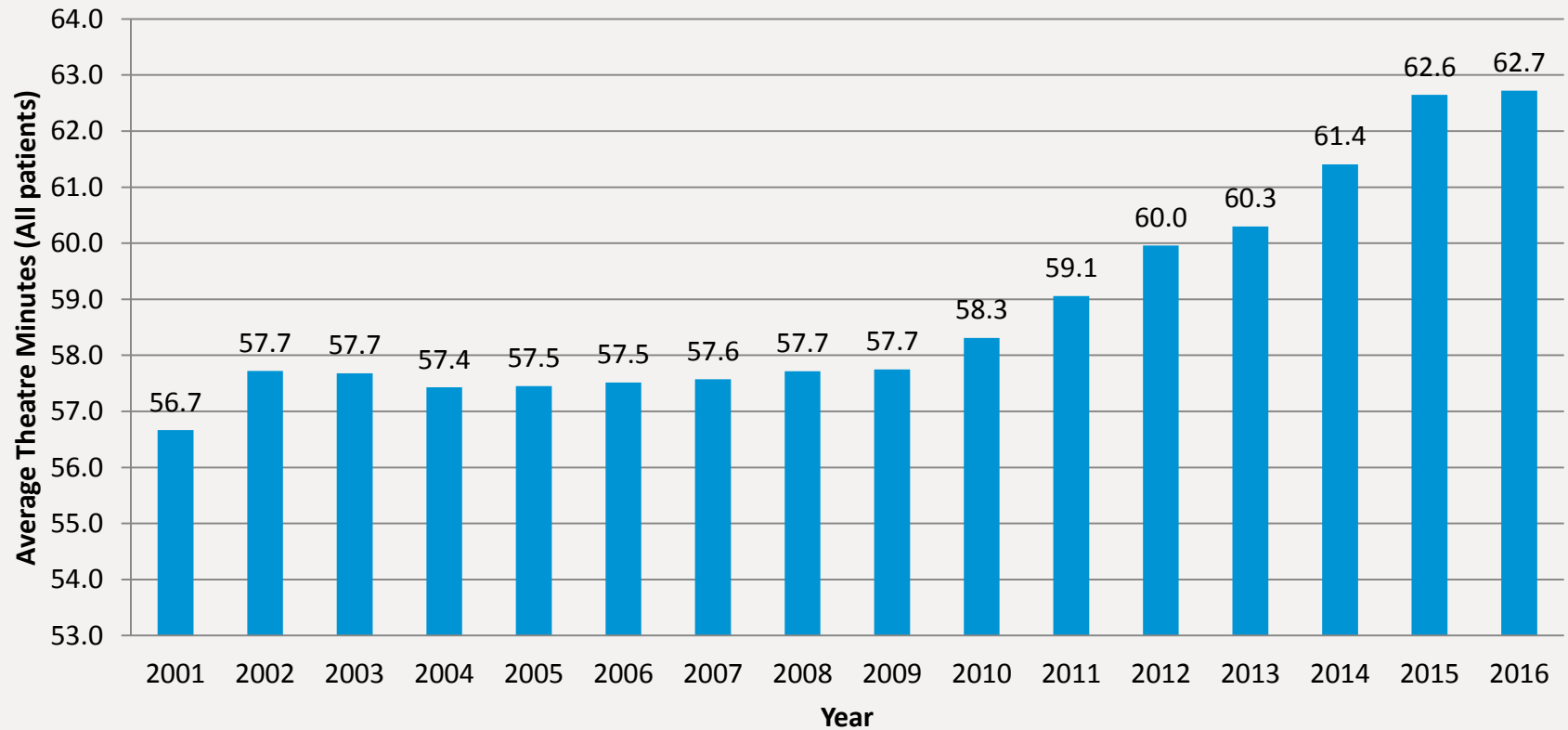
MEDICLINIC SOUTHERN AFRICA

ISM ACUITY LEVEL DISTRIBUTION – CRITICAL CARE UNITS



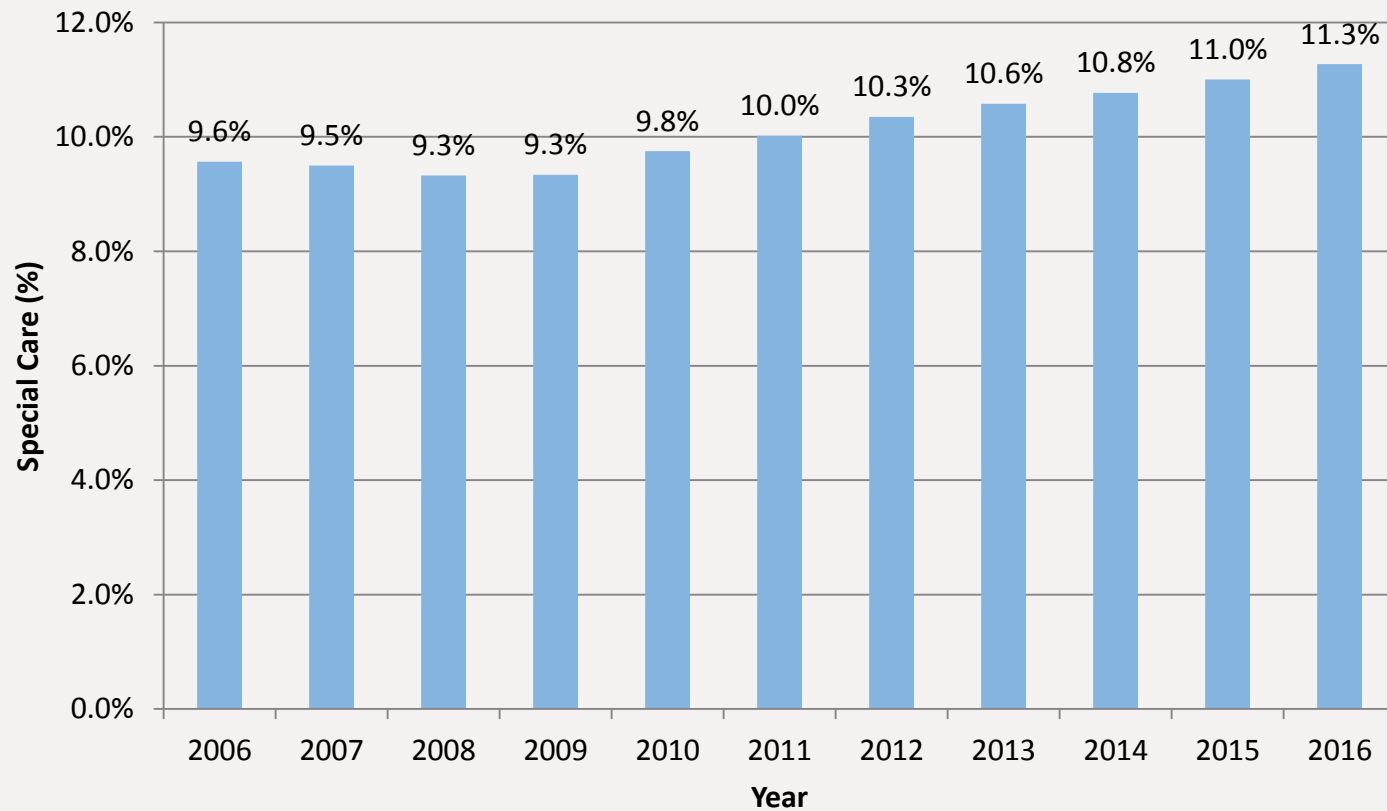
MEDICLINIC SOUTHERN AFRICA

AVERAGE THEATRE MINUTES



MEDICLINIC SOUTHERN AFRICA

PATIENTS RECEIVING SPECIALISED CARE (2006 – 2016)



CHALLENGES

GLOBAL HEALTHCARE CHALLENGES

- High and rising **cost**
- Patient **safety** concerns
- Inconsistent **quality** of care
- Democratisation of **information**

FRAGMENTED CARE A MAJOR STUMBLING BLOCK

BLOOMBERG HEALTHCARE SYSTEM

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INTEGRATED CARE

LENGTH OF STAY	HIRSLANDEN PRE DRG	HIRSLANDEN DRG
HIP REPLACEMENT	9.5	7.1
KNEE REPLACEMENT	10.3	8.0

INTEGRATED CARE

LENGTH OF STAY	HIRSLANDEN PRE DRG	HIRSLANDEN DRG	MCSA	MCSA CARE EXPERT
HIP REPLACEMENT	9.5	7.1	5.2	4.5
KNEE REPLACEMENT	10.3	8.0	5.4	4.7

THANK YOU