

# The Impact of Road Crashes on the Economy and Population

Dr Robert Zulu  
Consultant Surgeon  
Disaster Coordinator- UTH

# Introduction

- Hospital perspective
- The ministry of finance and national development and not forgetting the individual and immediate family and the national as a whole will feel the real impact.
- It is impossible to quantify the impact in terms of man hours or money lost

# The University Teaching Hospital

- This is the largest hospital in the country and houses in the department of surgery casualty section that receive and does initial management of trauma cases
- Trauma cases from within Lusaka and those from outside Lusaka eventually end up at UTH for specialist management
- Some cases go directly to private hospitals

# Patient Flow

- Upon arrival, a doctor or clinical officer sees and does the initial management
- Most of the patients are discharged
- Some are admitted for surgery, others are sent to intensive care for stabilisation for surgery is done
- Others arrive dead or die immediately on arrival or during resuscitation

# Five years trauma cases

	Male Above 15years	Males Below 15years	Female Above 15years	Females Below 15years	Totals
2005	10113	4327	4538	2483	21461
2006	10487	3739	4934	2632	21792
2007	12454	3530	5253	2462	23699
2008	13000	3831	5848	2380	25059
2009	11257	3571	5077	2222	22127
Total	57311	18998	25644	12179	114138

# Male to Female Ratio

	Male	Female
2009	14828	7299
2008	16831	8228
2007	15984	7715
2006	14226	7566
2005	14440	7021

# Percentage of Road Crashes

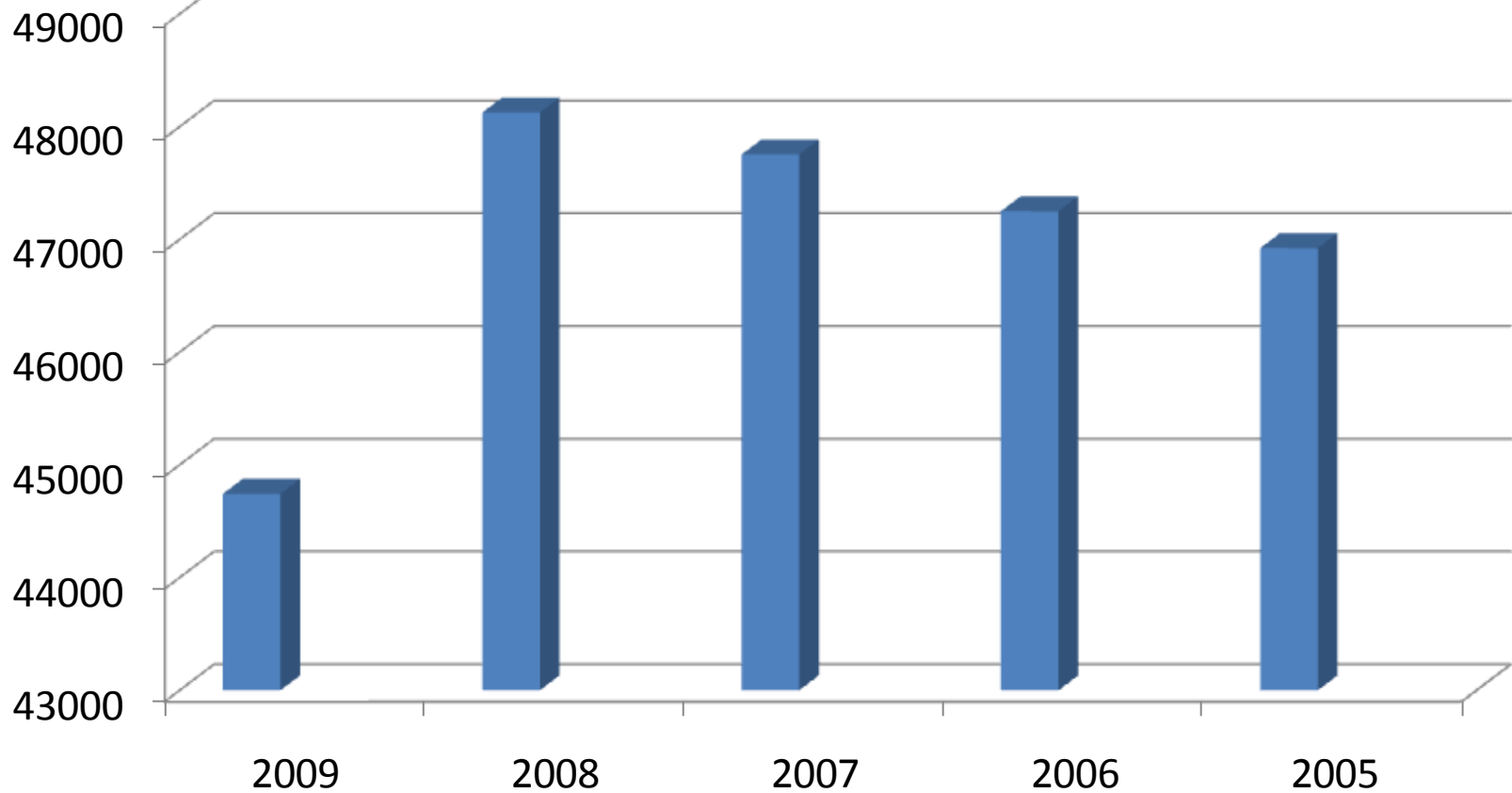
	Road Crashes	Total trauma	%
2009	5779	22127	26
2008	6102	25059	24
2007	6037	23699	26
2006	6013	21792	28
2005	5366	21461	25

# Age Comparison

	<b>Below 15years</b>	<b>Above 15years</b>
2009	5793	16336
2008	6211	18848
2007	5992	17707
2006	6311	15421
2005	6810	14651



# Admission to Casualty



# Observations

- Trend of Trauma presenting to casualty is increasing
- Half of the trauma cases we see are below the age of 15 years
- Half of the cases presenting are females
- 2008 had highest number of Road crashes but the lowest percentage
- 2009 had the lowest trauma admission

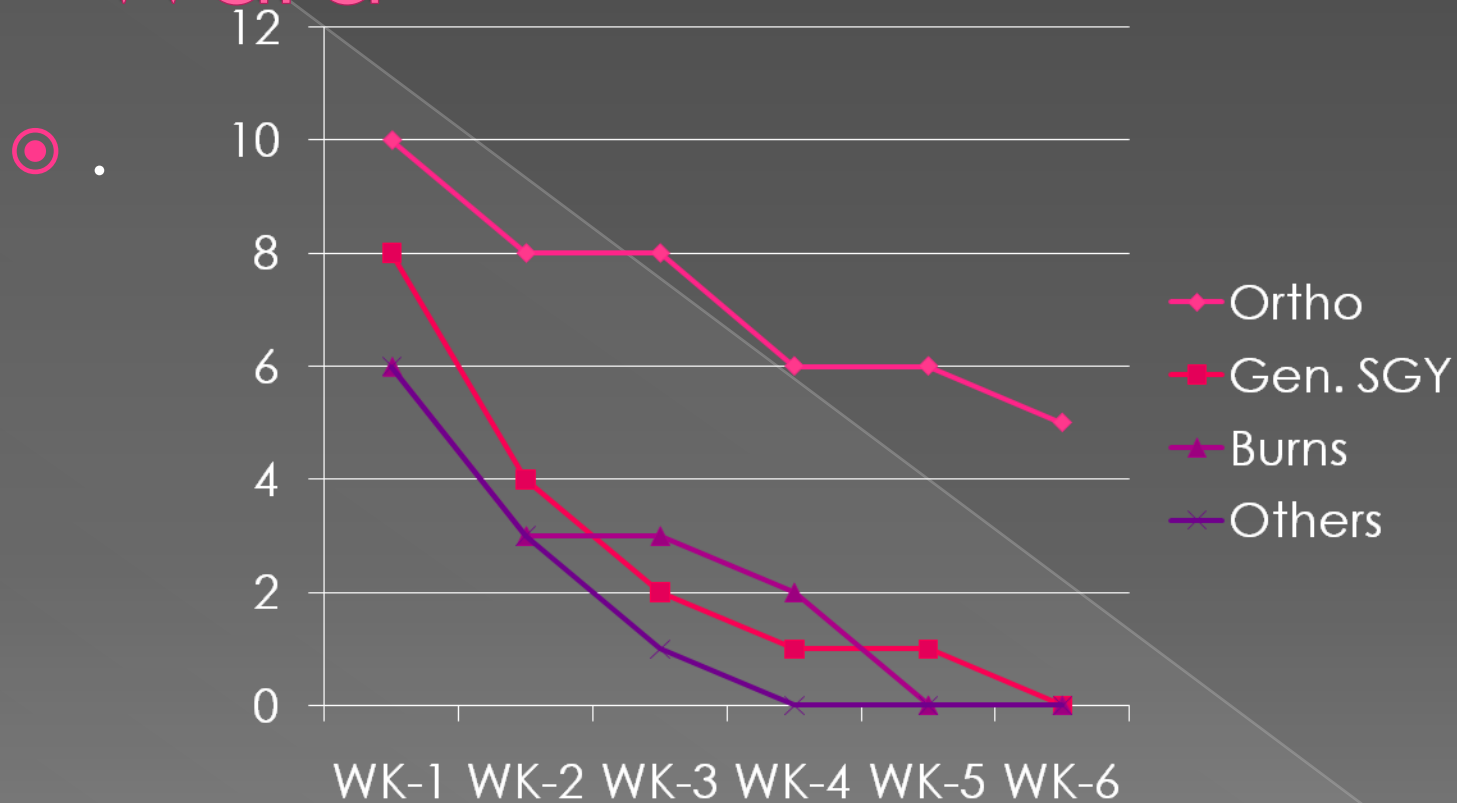
# The impact on the hospital

- Trauma cases stay on the ward the longest up-to three months
- Trauma cases are the most expensive to manage as they consume the most expensive implants
- Trauma cases occasionally are managed in intensive care wards which is the most expensive unit in the hospital, consuming the most resources

# The Impact on the hospital budget

- Three meal/day
- Daily linen change
- Nursing care
- Doctors' visit
- Drugs
- Implants
- Theatre operating time and surgical consumables

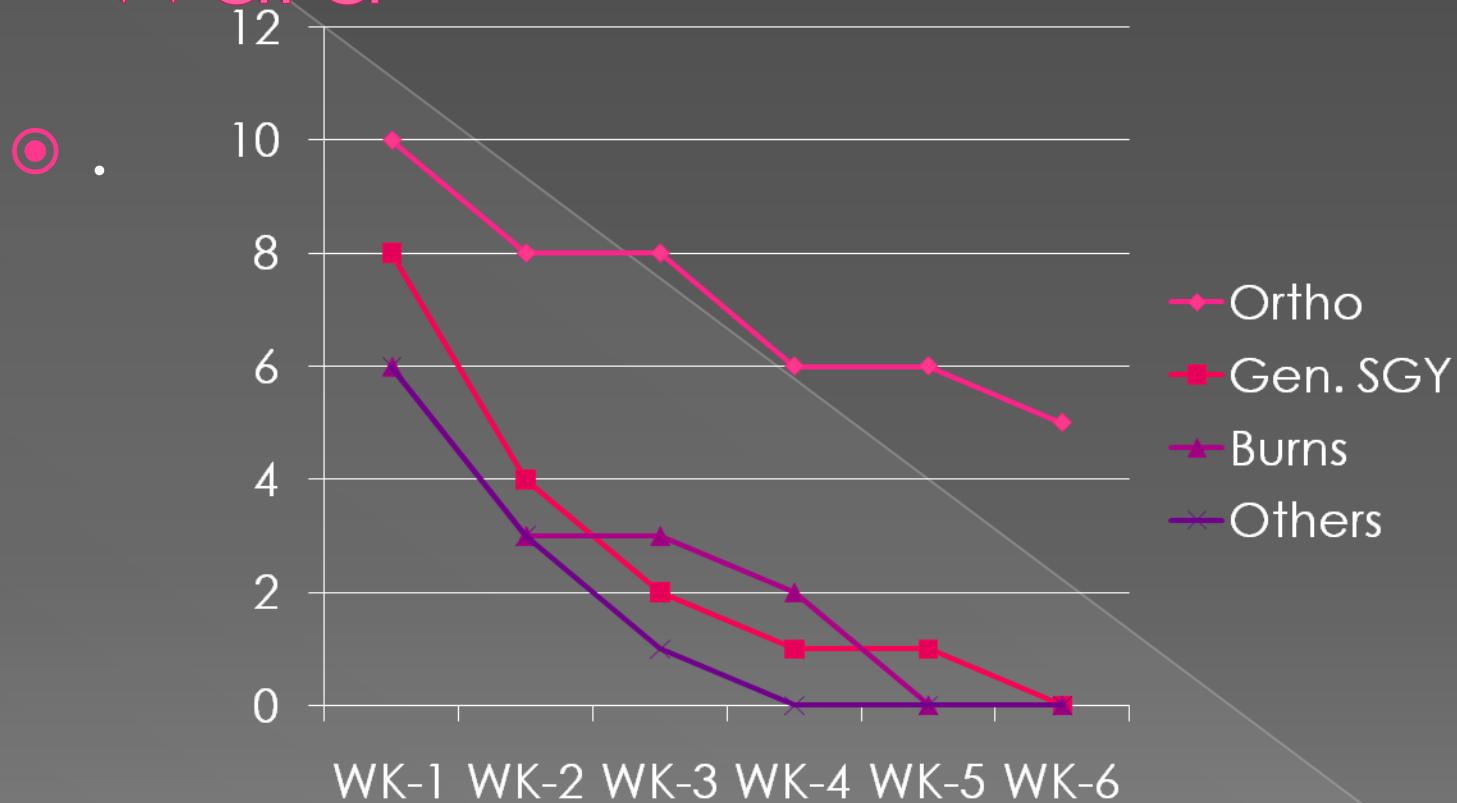
# Bed Occupancy Surgical Ward



# The Impact on the hospital budget

- 42 bed
- 8 wards x 42 beds = 336
- 26 % (abt 85beds) are due to Traffic crashes
- Meals ( 20000 x 42= 840 000) per ward x 8 surgical wards = K6 820 000=00 per day
- 204 million kwacha (K50 million Road Crash)
- Hospital 1600 beds

# Bed Occupancy Surgical Ward



# The Impact on the hospital budget

- Three meal/day
- Daily linen change
- Nursing care
- Doctors' visit
- Drugs
- **Implants**
- Theatre operating time and surgical consumables



# Way forward

- ◉ Commend Community Ambulance service
- ◉ Trauma Centre
- ◉ Training of Traffic officer in Trauma Management offered by The Surgical Society of Zambia

⦿ Thank you!