

Chronic Disease Management

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Presenter short Bio

Declarations and Speaker Profile

Ms Lindele Mbanjwa is the
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No Donations or endorsements for the
presentation



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Improve Quality of Life

**Healthy
Lifestyle
Promotion**

Glossary

INTRODUCTION

Introduction and Background - Chronic Diseases In South Africa



1. Chronic Disease Management
2. Chronic Disease Model
3. The Role of a Multi-Disciplinary Team

conclusion

The Future of South Africa

— Background and

Introduction

A rising concern on non Communicable Disease's in South Africa

Did you know chronic diseases – otherwise known as noncommunicable diseases, are the leading cause of death and disability worldwide, accounting for nearly 60% of all deaths and 43% of the global disease burden.

South Africa has a high burden of communicable and non-communicable disease (NCDs), with the latter making up 51% of deaths in 2019.

According to the World Health Organization, chronic disease is expected to account for 73% of all deaths by 2020.

“Chronic diseases are long-term illnesses caused by a combination of genetic, physiological, environmental, and behavioural factors.

Are we putting into practice what we know ?

1. Treatment
2. Prevention
3. Sustainability

A looming health concern

Reference List:



Top 11 Chronic CONDITIONS



Chronic Condition	Prevalence in South Africa
STROKE AND HEART DISEASE	The sheer number of <u>heart disease</u> or stroke fatalities is a growing concern in SA. According to the <u>Heart & Stroke Foundation</u> , 215 people die from heart disease or strokes daily. Every hour, five people have heart attacks, and 10 have strokes. Because there is a lack of awareness about cardiovascular disease, many people go undiagnosed and untreated until it is too late.
DIABETES	One in every three adults (13 million) in South Africa has <u>impaired fasting glucose</u> (IFG), putting them at high risk of developing type 2 diabetes. Diabetes is the country's second deadliest disease, according to <u>Statistics South Africa's</u> 2021 report on mortality and causes of death. It has claimed more lives than HIV, hypertension, and other forms of heart disease combined. It is a leading cause of blindness, kidney failure, heart attacks, stroke, and amputation of lower limbs.
EPILEPSY	More than 500 000 people in South Africa have epilepsy. Seizures caused by epilepsy can sometimes result in death. People with epilepsy may also have poor mental health or other impairments that are difficult to detect.
HIV & AIDS	In South Africa, the overall <u>HIV prevalence rate</u> is estimated to be around 13.7%. In 2021, the total number of people living with HIV was expected to be approximately 8.2 million. HIV infection affects an estimated 19.5% of adults aged 15 to 49 years.
ASTHMA	<u>Asthma</u> affects more than 20% of children and 10-15% of adults in South Africa. It is not uncommon for those suffering from the illness to be hospitalised during an attack, which can significantly reduce their quality of life.
ALZHEIMER'S DISEASE	According to the most recent <u>World Alzheimer's Report</u> , South Africa has 4.4 million people over the age of 60 living with the disease. Around 187,000 of these people have dementia.
HYPERTENSION/HIGH BLOOD PRESSURE	<u>High blood pressure</u> , also known as hypertension, affects more than one in every three adults in South Africa. Because there are rarely any symptoms or visible signs that blood pressure is high, it is referred to as a "silent killer".
TUBERCULOSIS	In South Africa, <u>tuberculosis</u> is a significant public health concern. Every year, approximately 450,000 people contract the disease, with 270,000 also infected with HIV. <u>TB is the leading cause of death in South Africa</u> . It kills approximately 89,000 people per year, or 10 people every hour. Effective treatments are available, and the country has made significant progress in combating the disease, but much more is required to bring it under control.



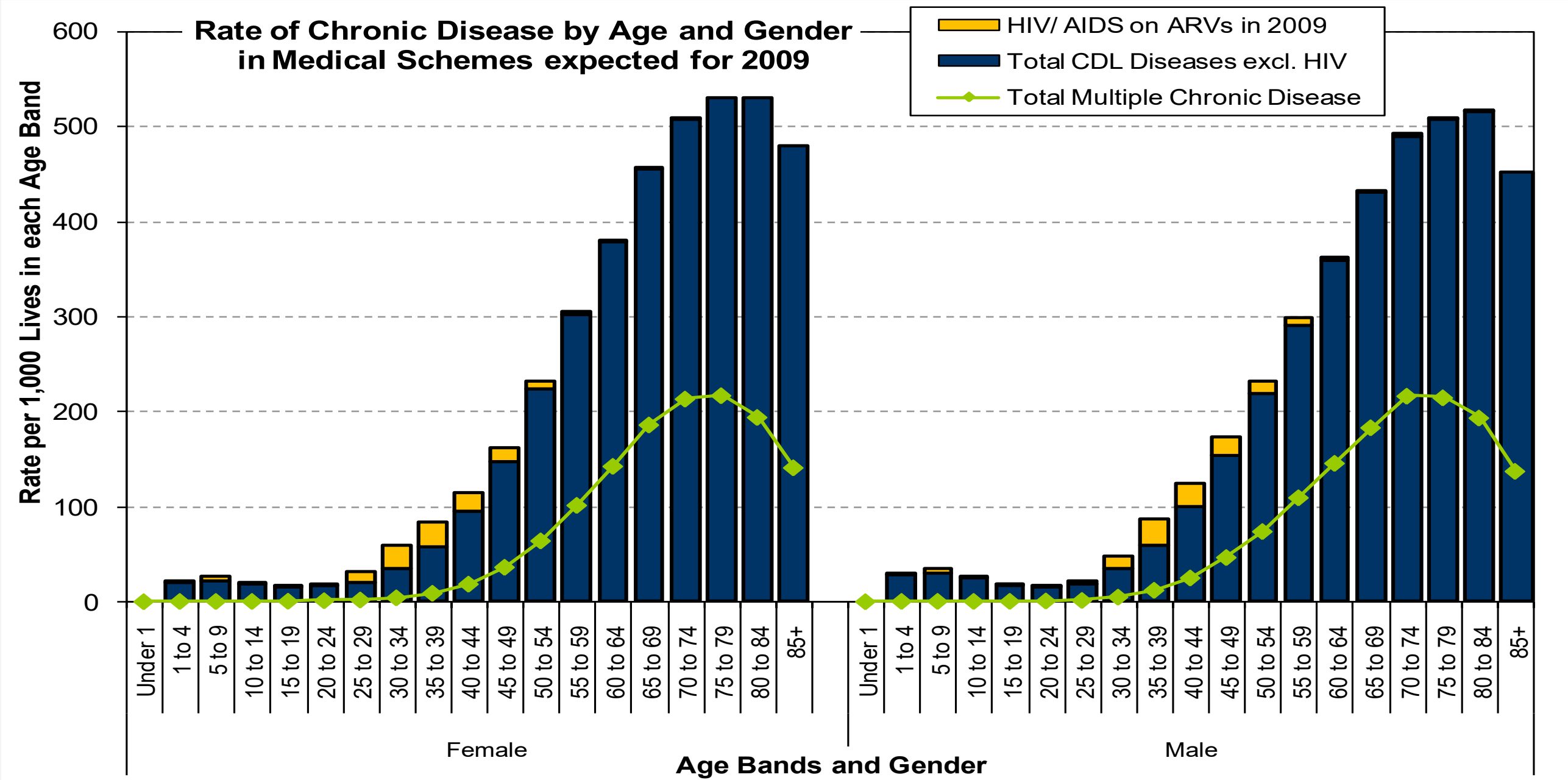
Top 11 Chronic CONDITIONS

CONTINUES...

Chronic Condition	Prevalence in South Africa
OBESITY/OVERWEIGHT	<p>Obesity statistics in South Africa are concerning, with approximately 31% of men and 68% of women obese. Obesity and being overweight can lead to various lifestyle diseases, including diabetes and heart disease.</p> <p>Obesity is a major issue in adults and children, with <u>more than 13% of South African children aged 6-14 years classified as overweight or obese</u>.</p> <p>Education, promoting access to healthier foods, and providing preventive care to paediatric patients can help maintain a healthy weight</p>
ARTHRITIS	<p><u>Osteoarthritis</u> is the most common type of arthritis in South Africa, with a prevalence rate of 55.1% in urban areas and between 29.5% and 82.7% in adults over 65 years of age in rural areas.</p> <p>As many patients are unsure how to manage their symptoms, arthritis coexists with other chronic conditions. This disease is surprisingly common among children, affecting one to four out of every 1000</p>
CANCER	<p>Cancer care is expected to cost \$240 billion (R4160 billion) by 2030, according to the most recent <u>Centers for Disease Control and Prevention (CDC)</u> and <u>National Cancer Institute</u> estimates, due to healthcare inflation over the previous decades.</p> <p>Despite declining cancer rates, the CDC predicts that cancer will remain one of the leading causes of death in South Africa. It is estimated that nearly 110,000 new cancer cases will be diagnosed in South Africa by 2020, with over 56,000 cancer-related deaths accounting for one-quarter of all premature noncommunicable disease-related mortality.</p> <p>The most <u>effective cancer prevention measures</u> continue to be early screenings, raising awareness about preventative techniques, and developing strategic partnerships.</p>

Chronic Drug List (CDL)

Rate of Chronic Disease in medical Schemes 2009

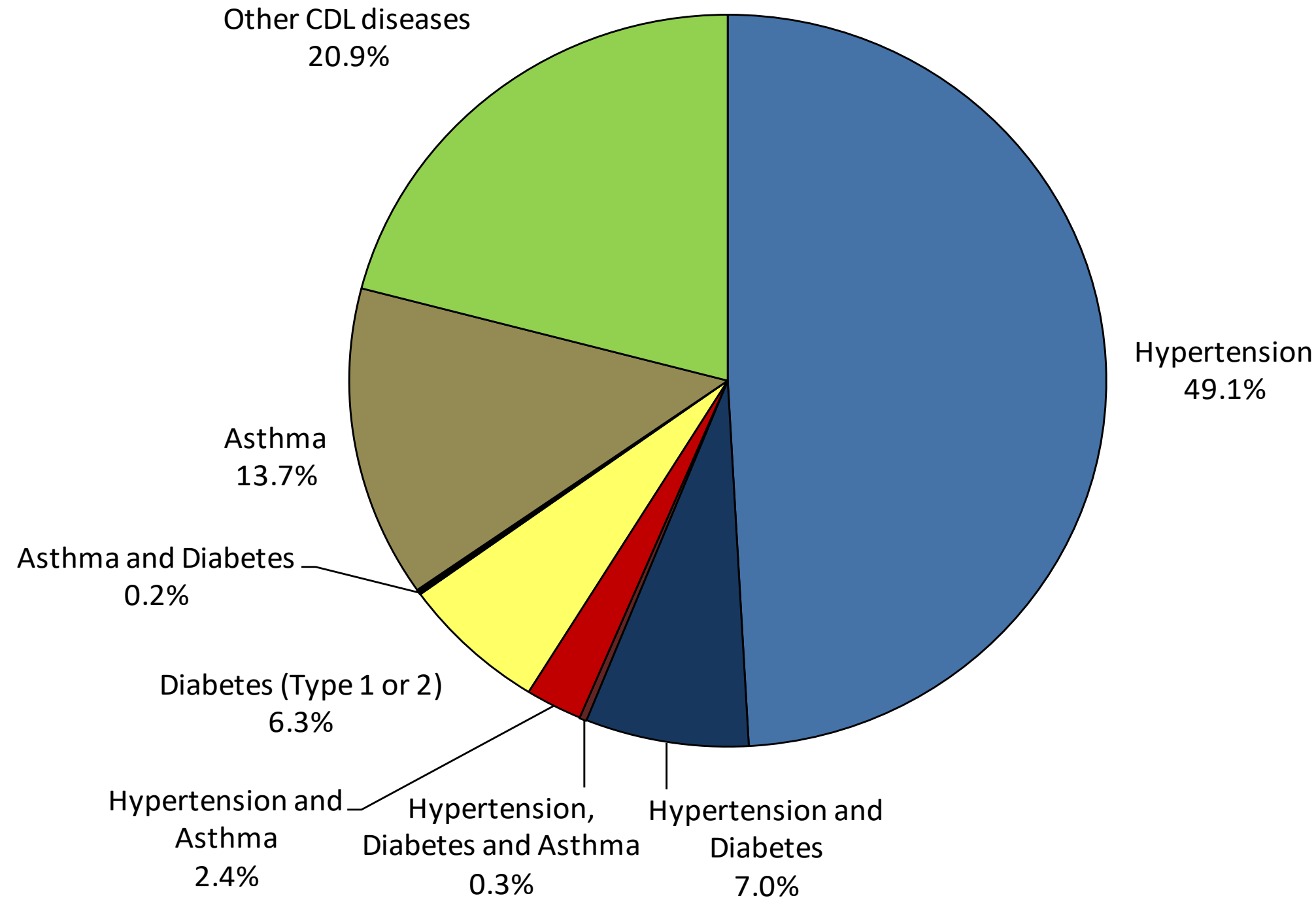


The 25 Chronic Disease List (CDL) diseases must be covered by medical schemes as part of the Prescribed Minimum Benefit (PMB) package. Strong pattern by age for chronic disease and multiple chronic disease.

Common Combinations of CDL

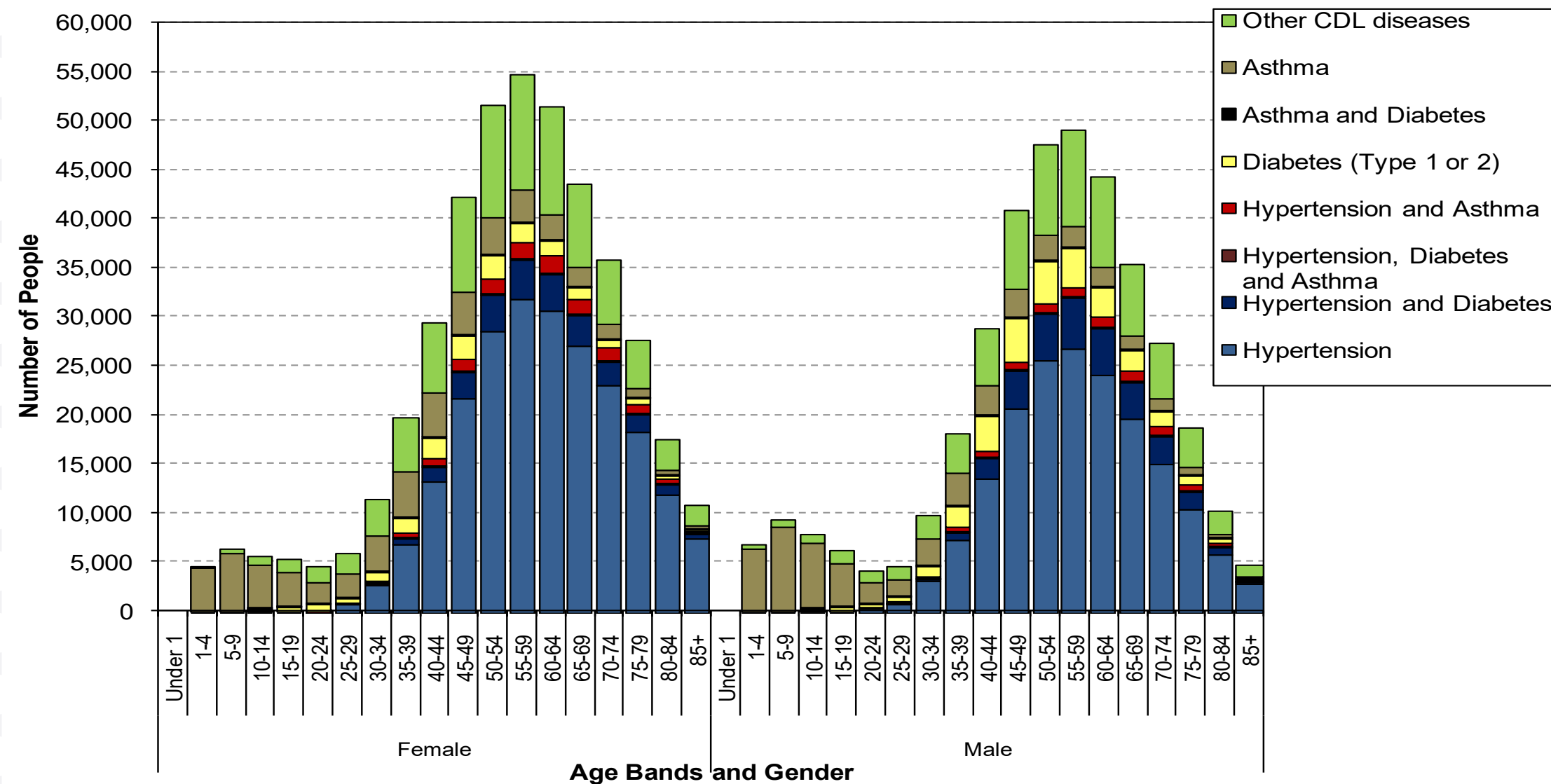


Chronic CDL Disease Combinations



Data from REF Study 2005 in medical schemes. Analysis excludes HIV as epidemic is progressing each year.

Numbers with Combinations of Chronic Conditions

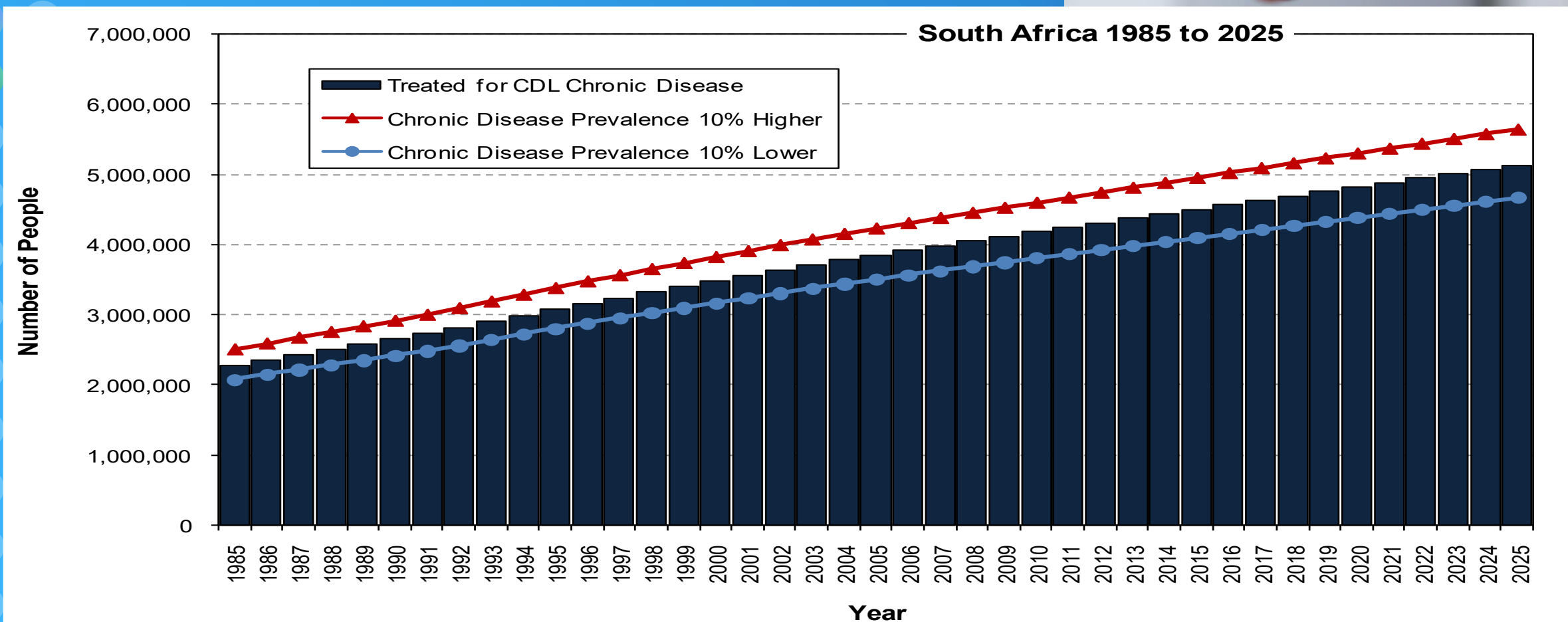


This analysis restricted to medical scheme population and excludes HIV (dealt with in Policy Brief 4).



Treatment Guidelines

Needing Treatment for CDL Chronic Diseases 1985 to 2025



Shows sensitivity to higher and lower rates of chronic disease by age and gender. The aging and growth of the population mean a substantial increase in the numbers needing treatment from 2.99 million in 1994 to 5.13 million by 2025 (172% increase)

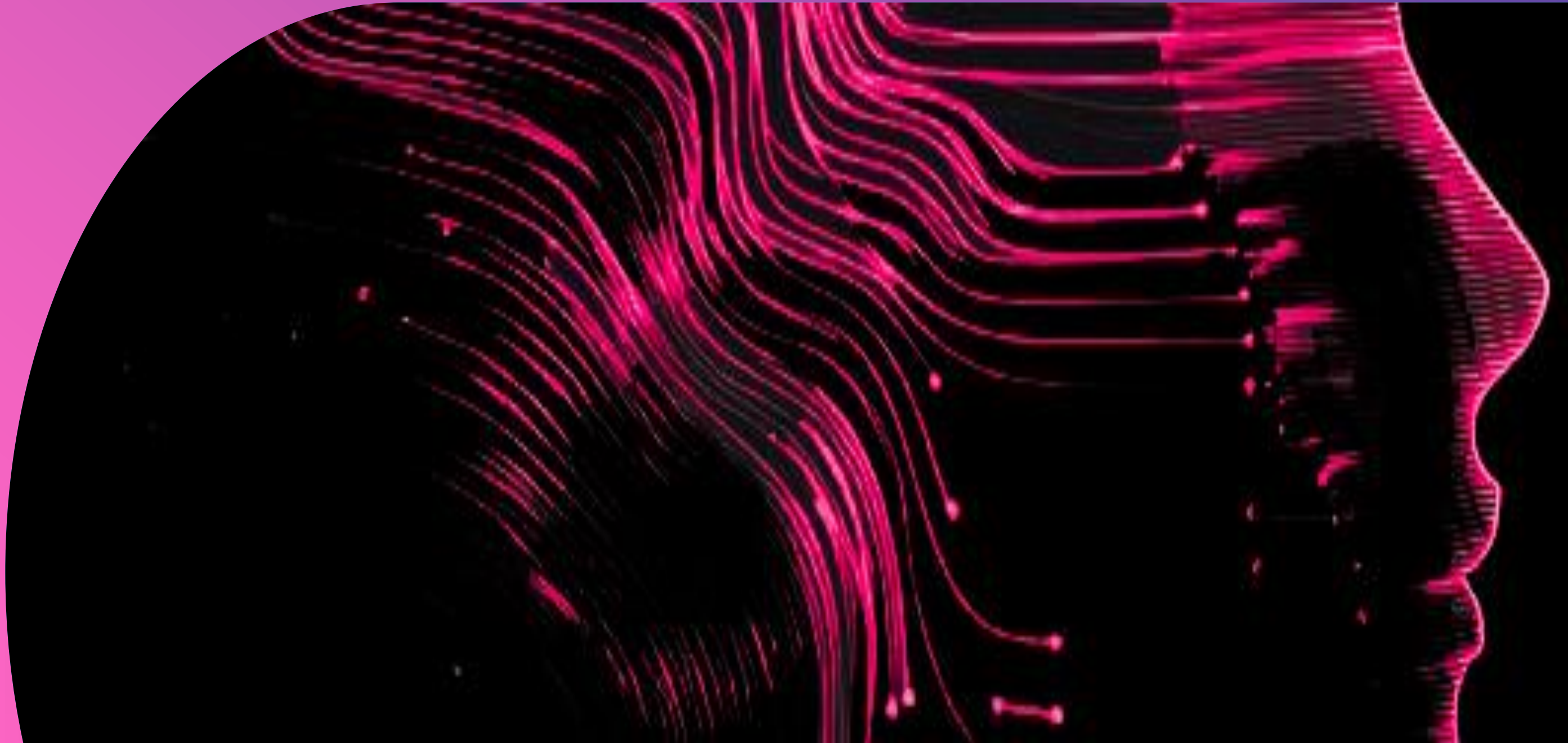
People Needing Treatment for Disease		Calendar Year						
REF code	Disease	1994	2000	2005	2009	2015	2020	2025
ADS	Addison's Disease	1,612	1,870	2,049	2,173	2,378	2,543	2,712
AST	Asthma	624,993	694,005	734,875	757,859	784,608	802,272	816,733
BCE	Bronchiectasis	1,946	2,185	2,362	2,491	2,685	2,816	2,941
BMD	Bipolar Mood Disorder	17,648	20,753	22,705	23,819	25,215	26,264	27,097
CMY	Cardiomyopathy	133,323	161,799	182,606	198,566	224,171	247,582	273,046
COP	Chronic Obs. Pulmonary Disease	72,565	83,704	92,776	100,323	112,414	123,598	135,196
CRF	Chronic Renal Disease	6,971	8,139	9,013	9,621	10,518	11,232	11,894
CSD	Crohn's Disease	5,276	6,188	6,789	7,198	7,754	8,171	8,516
DBI	Diabetes Insipidus	492	561	603	628	654	669	678
DM1	Diabetes Mellitus 1	78,689	91,129	99,345	104,456	111,268	116,612	121,489
DM2	Diabetes Mellitus 2	310,861	365,116	408,500	439,719	484,514	522,174	559,928
DYS	Dysrhythmias	35,437	41,561	46,494	50,610	57,173	63,187	69,689
EPL	Epilepsy	121,925	139,608	150,792	157,389	165,914	172,379	178,213
GLC	Glaucoma	49,142	58,529	65,774	71,683	81,170	89,932	99,286
HAE	Haemophilia	623	692	736	752	764	768	774
HYL	Hyperlipidaemia	615,850	714,785	798,635	864,608	965,408	1,052,327	1,137,312
HYP	Hypertension	1,388,731	1,638,462	1,842,501	1,996,843	2,223,052	2,410,396	2,593,482
IBD	Ulcerative Colitis	8,577	10,058	11,080	11,794	12,751	13,483	14,167
IHD	Coronary Artery Disease	160,955	188,525	211,021	229,341	258,067	284,262	311,976
MSS	Multiple Sclerosis	3,778	4,486	4,926	5,173	5,467	5,664	5,821
PAR	Parkinson's Disease	15,534	18,693	21,057	22,963	26,196	29,231	32,787
RHA	Rheumatoid Arthritis	62,963	74,375	83,554	90,228	99,592	107,090	114,015
SCZ	Schizophrenia	8,863	10,495	11,600	12,273	13,174	13,895	14,534
SLE	Systemic Lupus Erythematosus	5,145	6,103	6,753	7,140	7,582	7,880	8,146
TDH	Hypothyroidism	283,965	336,336	379,349	413,268	462,897	502,178	537,987
CC2	Two simultaneous conditions	663,945	777,774	872,288	946,116	1,057,414	1,152,591	1,247,208
CC3	Three simultaneous conditions	151,224	176,103	197,502	214,950	242,077	265,992	289,560
CC4	Four or more simultaneous conditions	20,425	23,695	26,585	29,041	32,960	36,469	39,901
Sum of all CDL Diseases (including multiple)		4,915,863	4,678,156	5,195,894	5,580,920	6,145,386	6,616,605	7,078,417
Number of People with CDL Diseases		2,987,745	3,476,626	3,848,285	4,117,082	4,503,996	4,821,470	5,131,046
Number of People with Multiple Disease		835,594	977,571	1,096,375	1,190,107	1,332,451	1,455,052	1,576,670
Proportion of People with CDL Diseases		9.7%	10.1%	10.6%	11.0%	11.7%	12.4%	13.0%
Proportion of People with Multiple Disease		2.7%	2.8%	3.0%	3.2%	3.5%	3.7%	4.0%

Assumes public prevalence, diagnosis and treatment rates are the same as in medical schemes

Source: IMSA NHI Policy Brief 3: Chronic Disease and Future NHI

The ROLE of Multidisciplinary Team

MDT in Chronic Disease Management



— Decreasing the Number

Management of Chronic Diseases



- ❖ Multidisciplinary teams (MDTs) are a core component of **integrated chronic disease management** in South Africa, bringing together various healthcare professionals to provide holistic, patient-centered care and improve health outcomes.
- ❖ There are several ways a South Africa may tackle this problem other than simply increasing the budget for healthcare. Example of Western Cape Department of Health: attempts to intervene in the “up-stream” causes of disease.
- ❖ Germany implemented disease management programmes in their national system in 2002. Other countries to introduce chronic disease management programmes include Singapore, Australia, Japan, Brazil, Argentina, France, Canada, Spain and India.
- ❖ Medical schemes in South Africa have developed wellness programmes, disease management programmes and patient support programmes. South African medical schemes and managed care organisations are amongst the leaders worldwide in this field.
- ❖ Disease management and wellness programmes are areas where the private sector can add significant value to decreasing the ever growing trend/burden of chronic diseases, no matter the details of the funding design.
- ❖ Health Care Providers (HCP) to play a pivotal role in ensuring that every patient is referred to a patient support programme upon being diagnosed with a chronic condition.
- ❖ Awareness on the treating HCP that it will take a team not one man to compact the GIANT of NCD.

Prevention of Disease Progression

Life style modification – Behavioral Science | Disease of lifestyle

Road Map to Recovery



Diagnosis



Lifestyle Modification



Rx Adherence

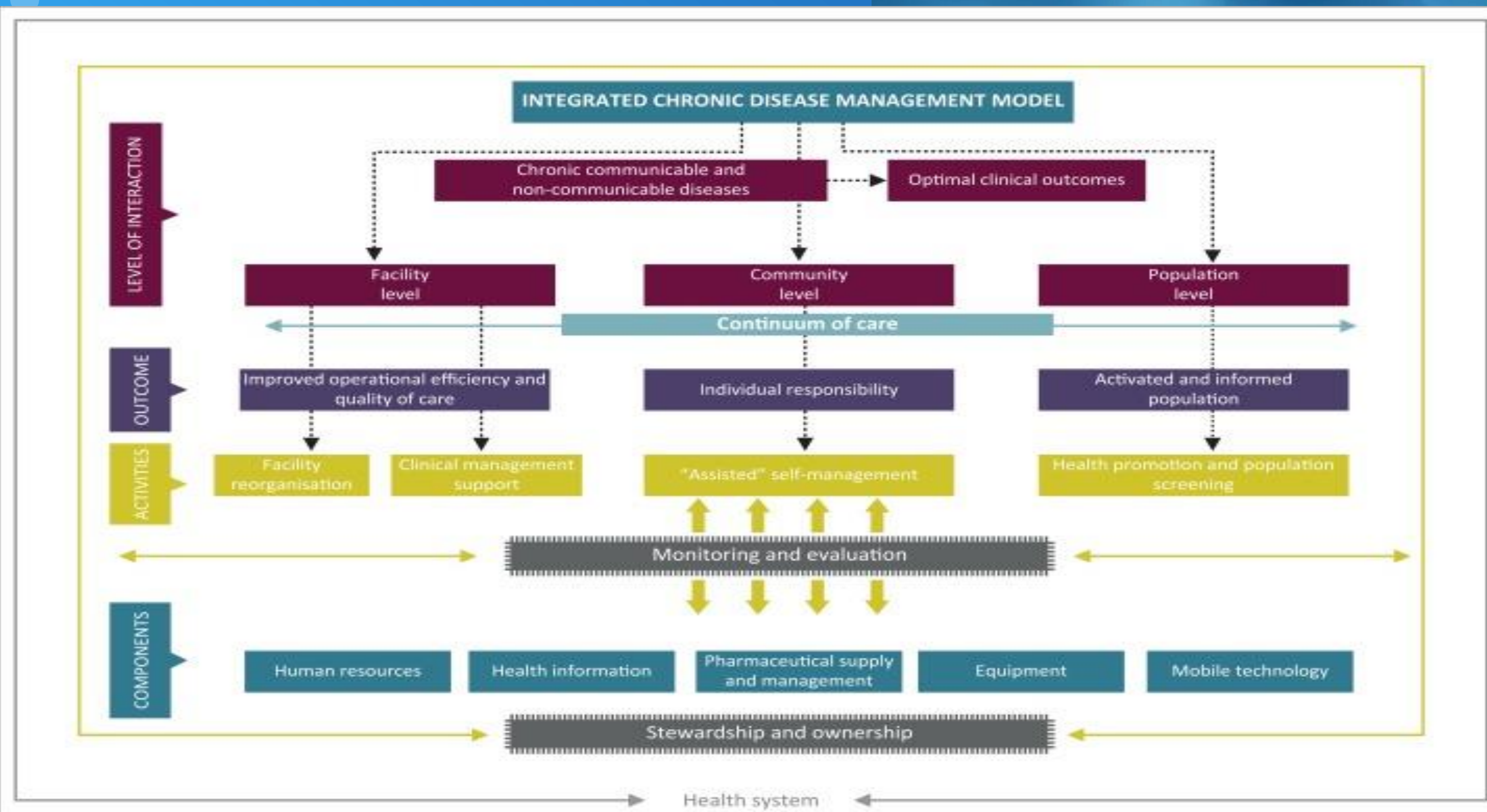


Acceptance



Sustainability

— INTEGRATED CHRONIC DISEASE MANAGEMENT MODEL



It's take more than One...

South Africa has implemented policies like the **Integrated Chronic Disease Management (ICDM) model** and the **Policy Framework and Strategy for Ward-Based Primary Healthcare Outreach Teams** to promote and support multidisciplinary care, especially at the primary healthcare (PHC) level.

TEAM

Challenges in implementing MDTs can include logistical issues (e.g., conflicting schedules), communication barriers, and professional hierarchies, all of which require structured protocols and training to overcome



General Practitioner and Specialists Physicians

Biokineticist

PODIATRIST

Nurse Practitioner



Social Worker

Physiotherapist

Dietitian

Pharmacist

The Strain within the Health Care Sector

South Africa's state of health reflects the complex interplay of a dysfunctional health system still grappling with the historical legacy of apartheid. While there has been a decline in infectious diseases, the country now faces a rising burden of NCDs. This shift has exposed critical gaps in the healthcare infrastructure, which is in desperate need of revitalisation. Addressing these challenges requires strong and ethical leadership, alongside multisectoral collaboration and innovation, to effectively tackle the broader determinants of health and ensure a more equitable and sustainable healthcare system for all.

South Africa's healthcare system faces strain from a large, unequal two-tiered system, a growing disease burden, workforce shortages, and financial challenges. The public sector, which serves most of the population, is underfunded, resulting in severe staff shortages, increased workloads, and long waiting times. This is worsened by issues like corruption, a "brain drain" of skilled professionals, and the rising costs of health inflation in the private sector.

Health Care Professionals UNITE in building a Better South Africa for ALL



UNITED we Can DO better and Achieve MORE



Conclusion

Chronic disease Management remains a complex yet very important element within our health care system and we all have a role to place in lessening the burden associated with preventable complications.



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