

INNOVATIVE
DISRUPTION

Changes that will make a difference

HMI^í

Health Management Institute of Ireland

www.hmi.ie/conference/

Best place to care –
innovation solutions

Professor Rose Anne Kenny

*Chair of Medical Gerontology, Director of Falls
and Syncope Unit, St. James's Hospital
and Trinity College Dublin*

What does innovative
disruption look like

Best place to care – what
needs to be done

Community
Free Range

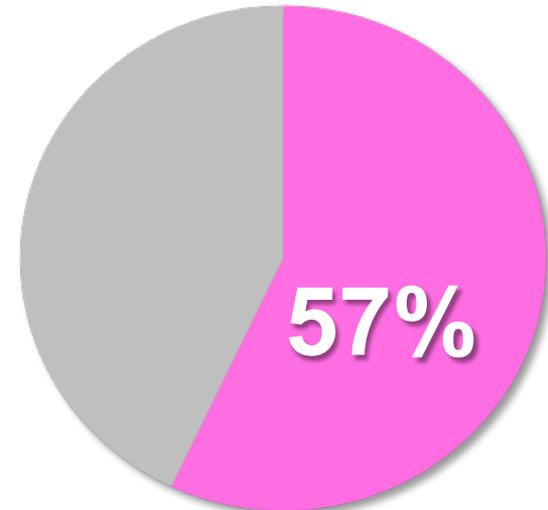
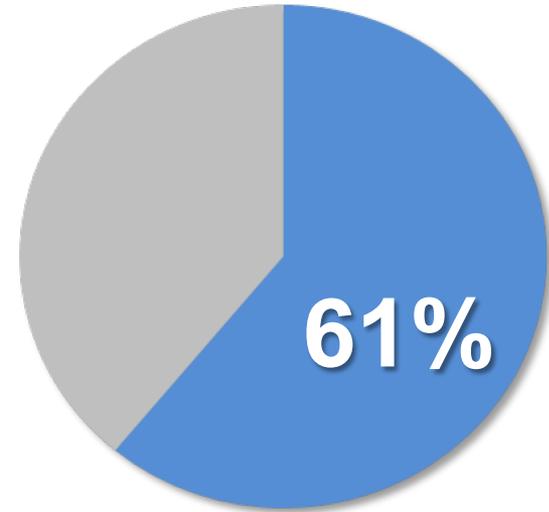
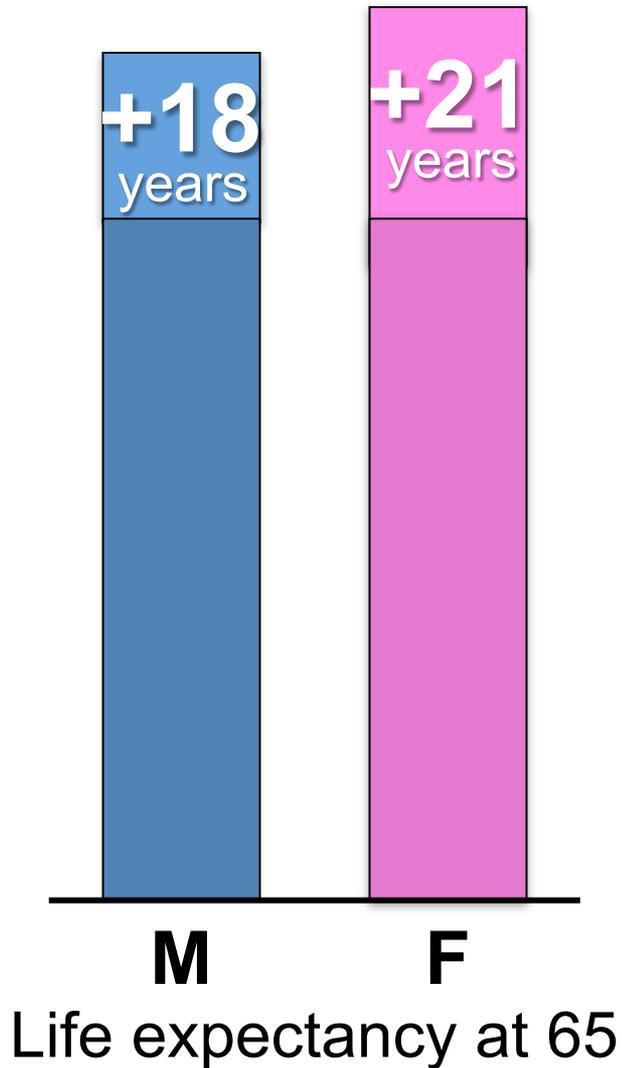
Acute hospital

Institution

Adults > 50 years
Ireland and prevention
Model ambulatory care
admission avoidance



Life Expectancy & Healthy Life Years



% Healthy Life Years

Prevention

Cardiovascular
disease- RIP

Dementia- Cost

CV Risk Factors - Brain health

Hypertension

Diabetes

High cholesterol

Atrial fibrillation

(Obesity/Metabolic

Syndrome)

Hypotension

The logo for TILDA (The Irish Longitudinal Study on Ageing) features the word "tilda" in a lowercase, sans-serif font. The letters "t", "l", "d", and "a" are a muted brown color, while the "i" is a vibrant lime green. The "i" is stylized with a solid green circle above it and a vertical bar below it.

The Irish Longitudinal
Study on Ageing

**8,504 Participants
≥50**

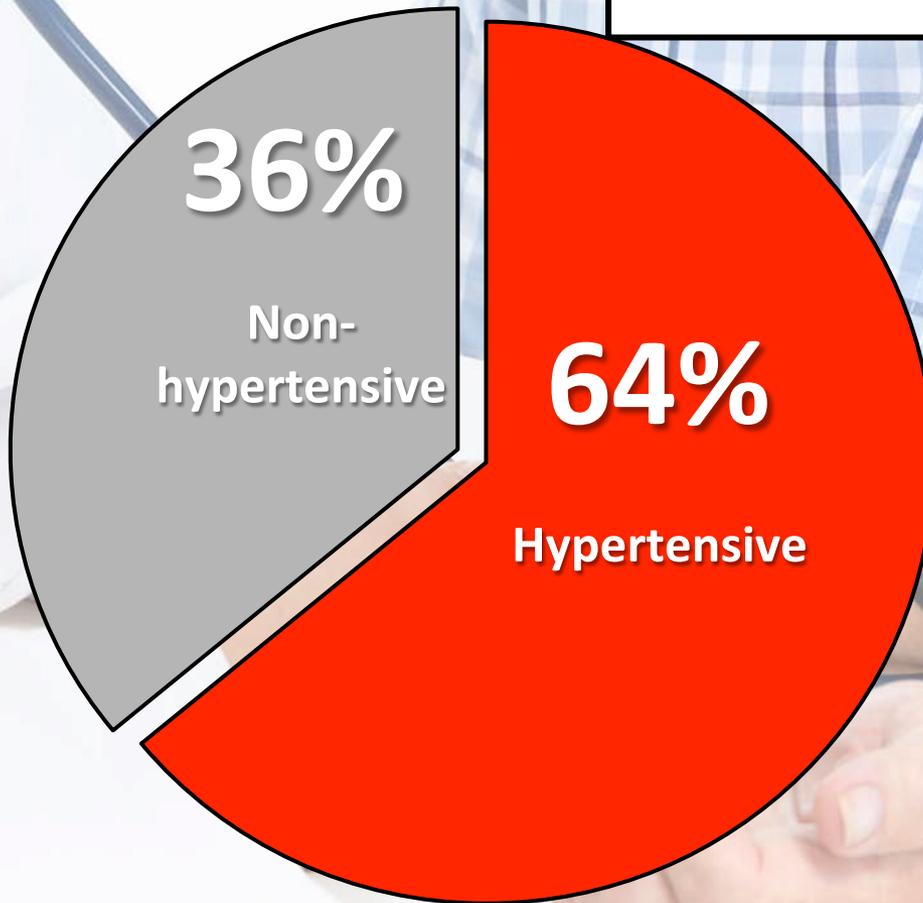
Re assessed every 2 years

Mean age 64 wave 1

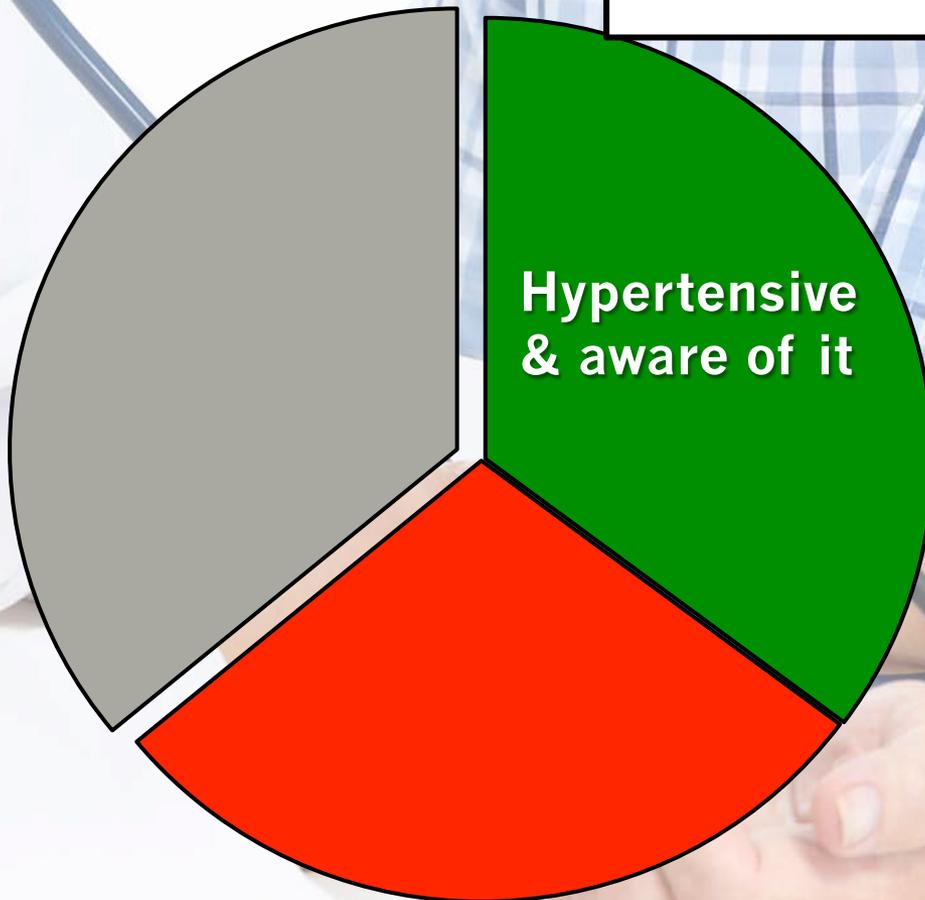
2017/18 wave 5

Sample refreshment 2019/2020

*“has a doctor ever told you
that you
have hypertension/high
BP?”*

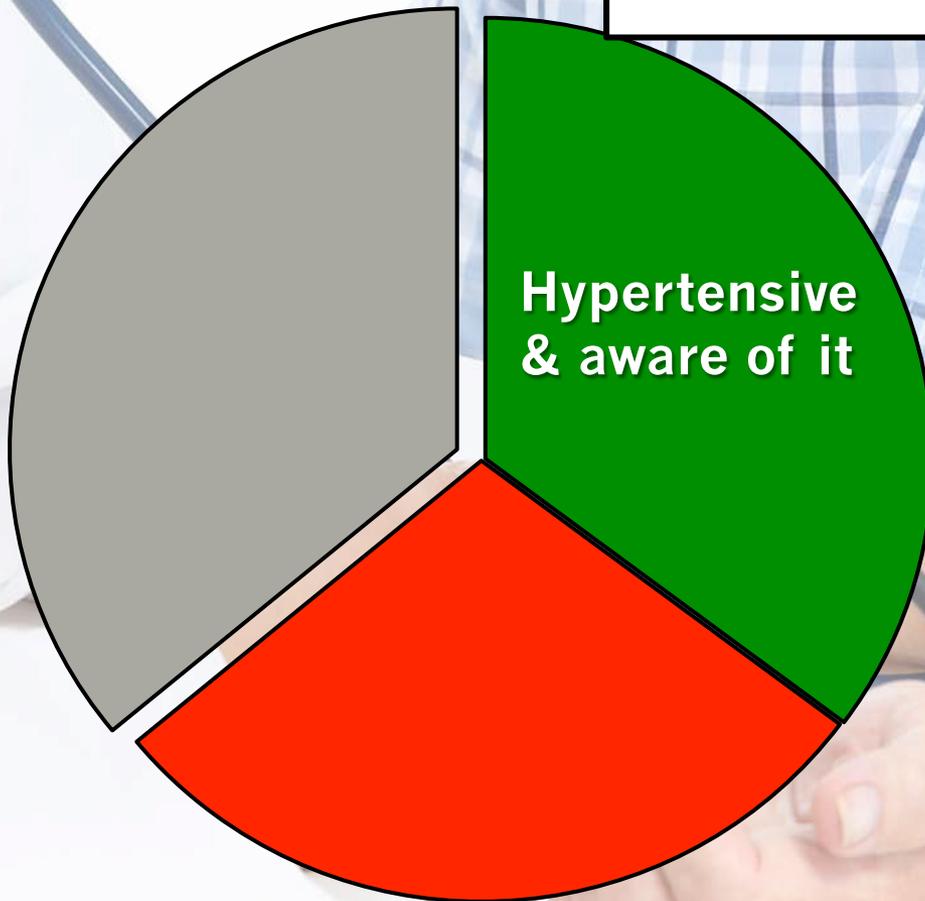


*“has a doctor ever told you
that you
have hypertension/high
BP?”*



**Of those with
hypertension:
55% were aware
of their
hypertension**

*“has a doctor ever told you
that you
have hypertension/high
BP?”*



**Of those with
hypertension
& on treatment:
48% were not
controlled**

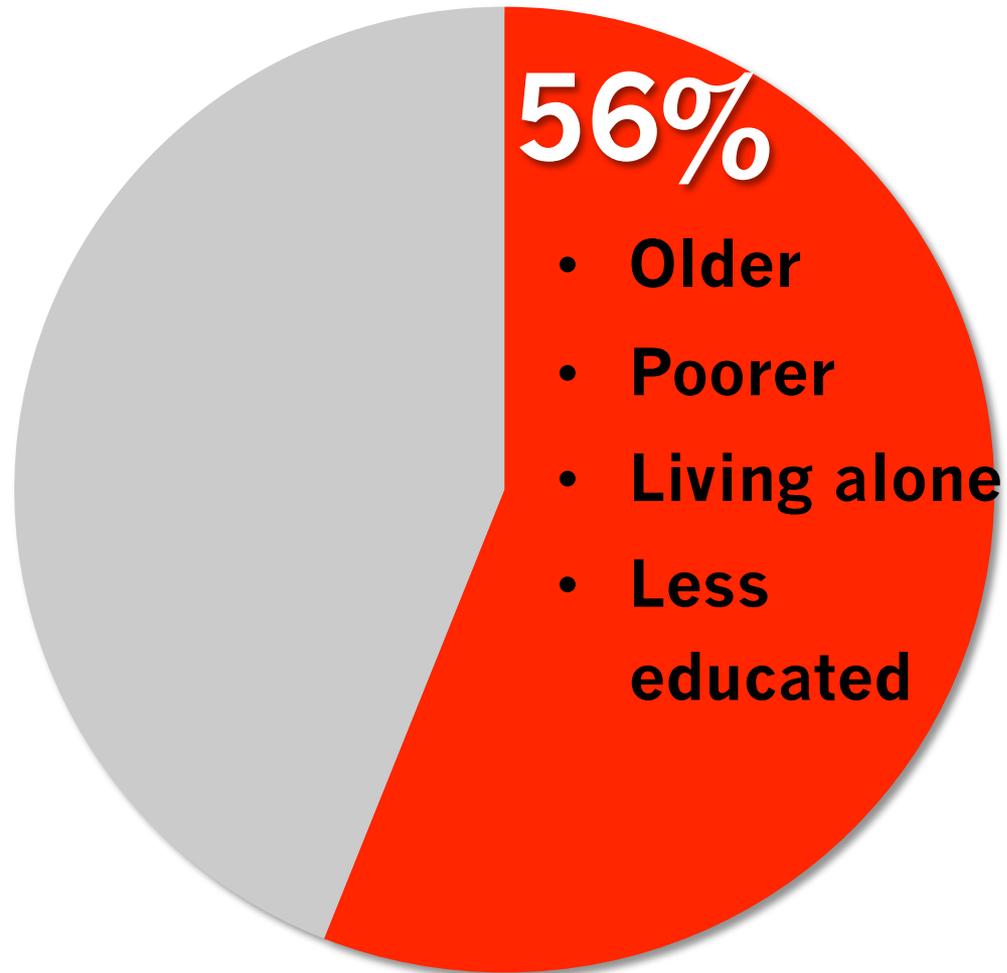
THE IRISH TIMES

High blood pressure: the 'largest epidemic known to mankind'

In Ireland almost 65% of people over 50 have high blood pressure. Nearly half of them are unaware

2016: "New Scheme introduced to reimburse General Practitioners for Ambulatory Blood Pressure measurement"

Undiagnosed High Blood Pressure



CV Risk Factors - Brain health

Hypertension

Diabetes

High cholesterol

Atrial fibrillation

(Obesity/Metabolic Syndrome)

Hypotension

Using Statins

Known CVD (100%) **68.8%**

Diabetes
(100%) **57.4%**

NDC 0071-0158-23
Rx only

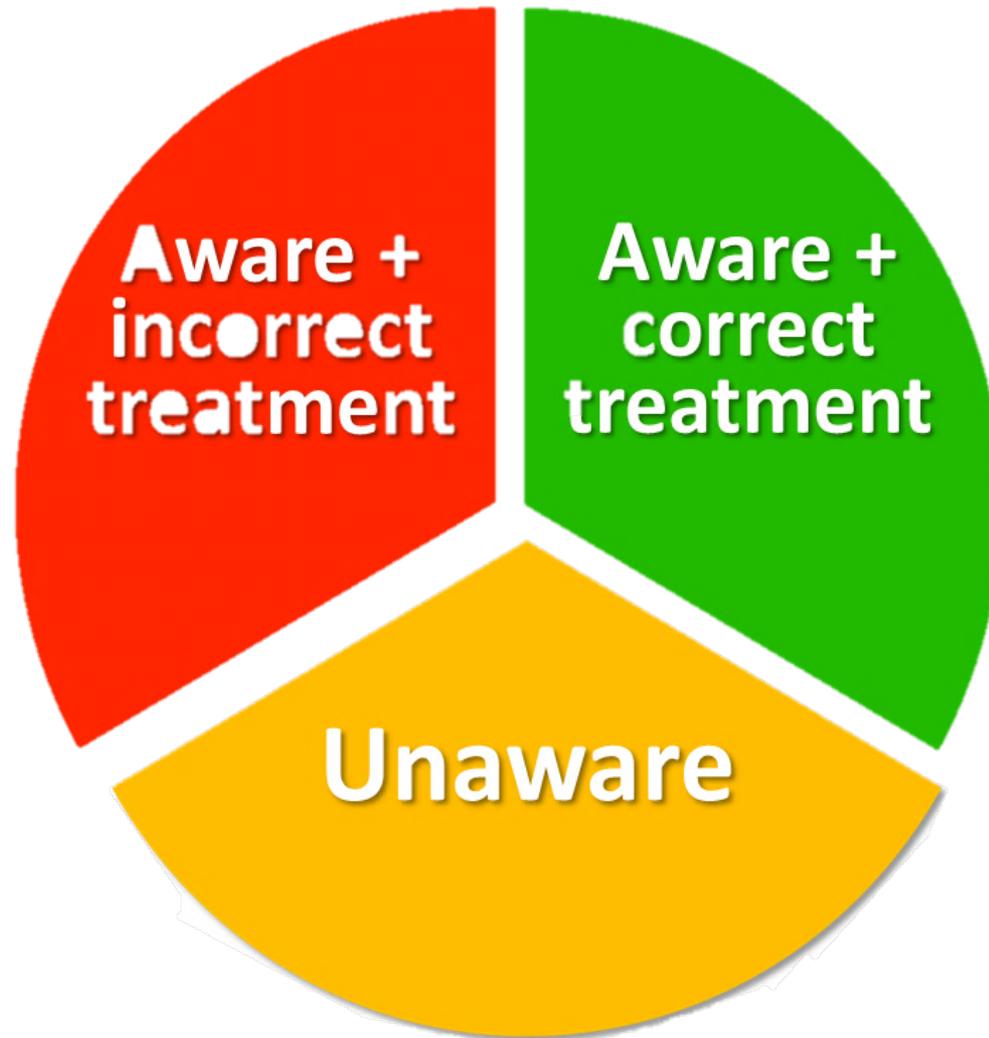
80

tablets

Atrial Fibrillation

Stroke
Heart failure
Alzheimer's Disease

Atrial Fibrillation





Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive

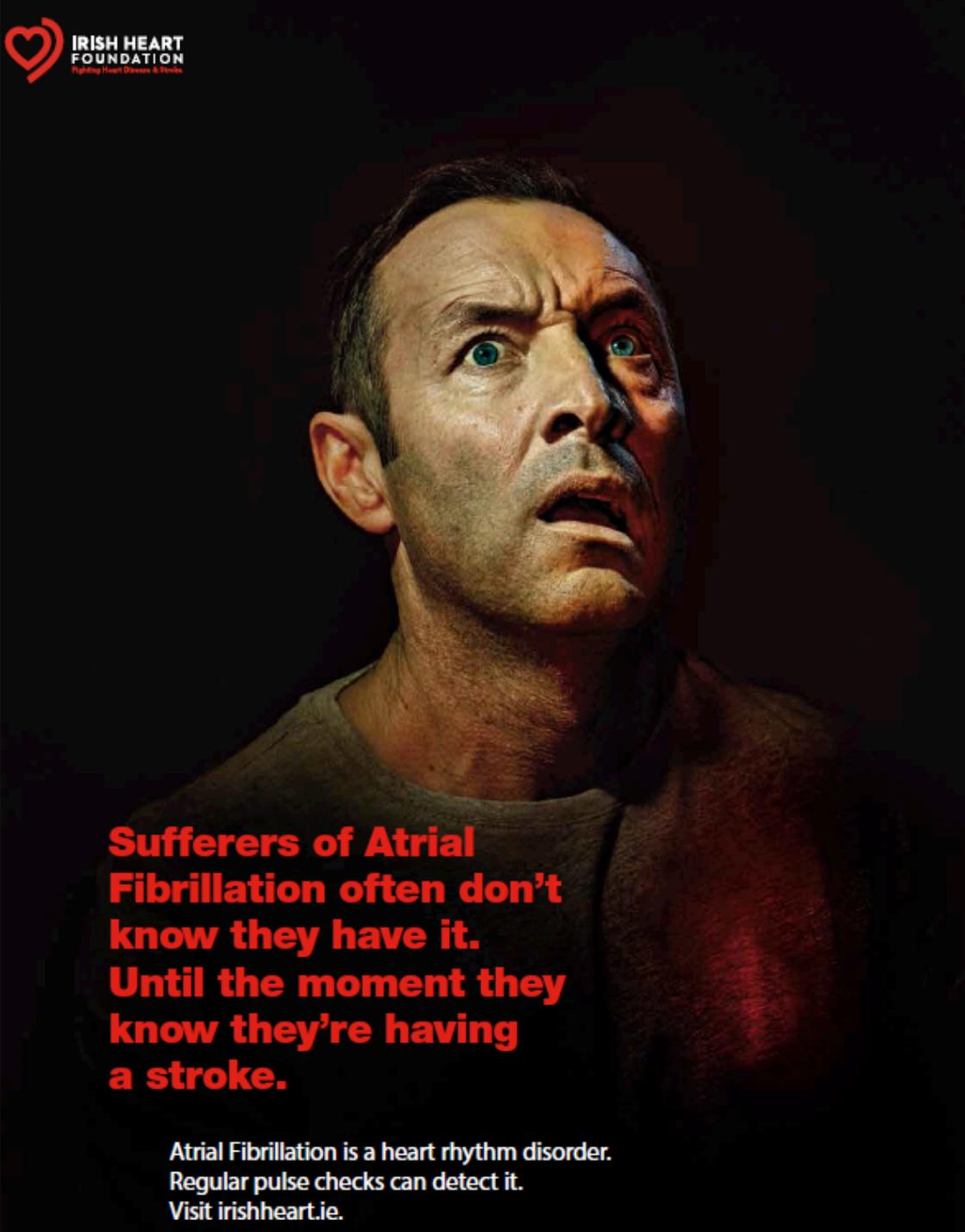


STROKE

HSE Clinical Strategy and Programmes Directorate

National Stroke Programme

Atrial Fibrillation Screening in General Practice



**Sufferers of Atrial
Fibrillation often don't
know they have it.
Until the moment they
know they're having
a stroke.**

Atrial Fibrillation is a heart rhythm disorder.
Regular pulse checks can detect it.
Visit irishheart.ie.

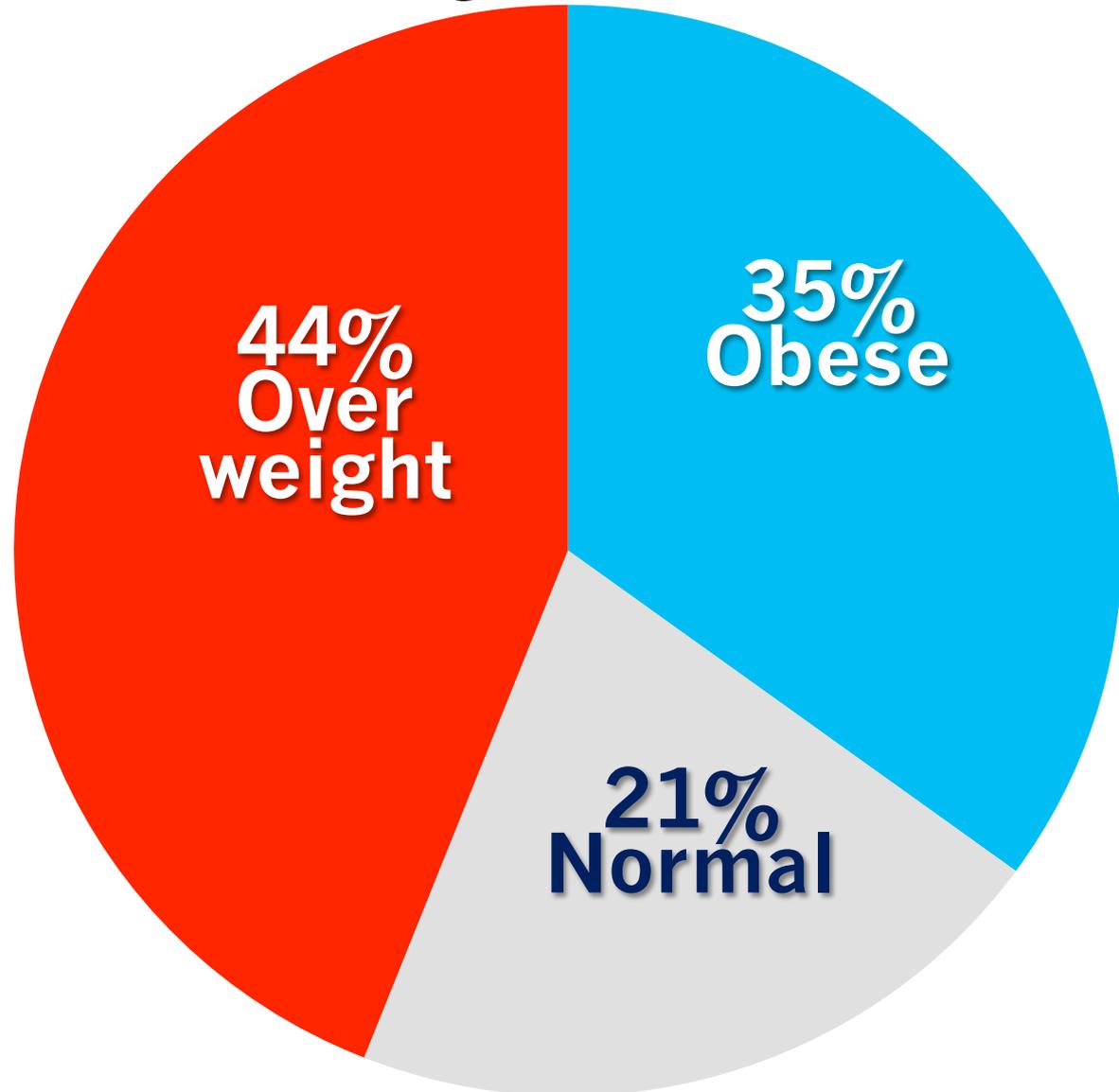


Evaluate policy changes – at repeated waves

Overweight & Obesity



OMAN3D.COM



Mean Consumption Levels

Food & Drinks high in Fat,
Sugar & Salt

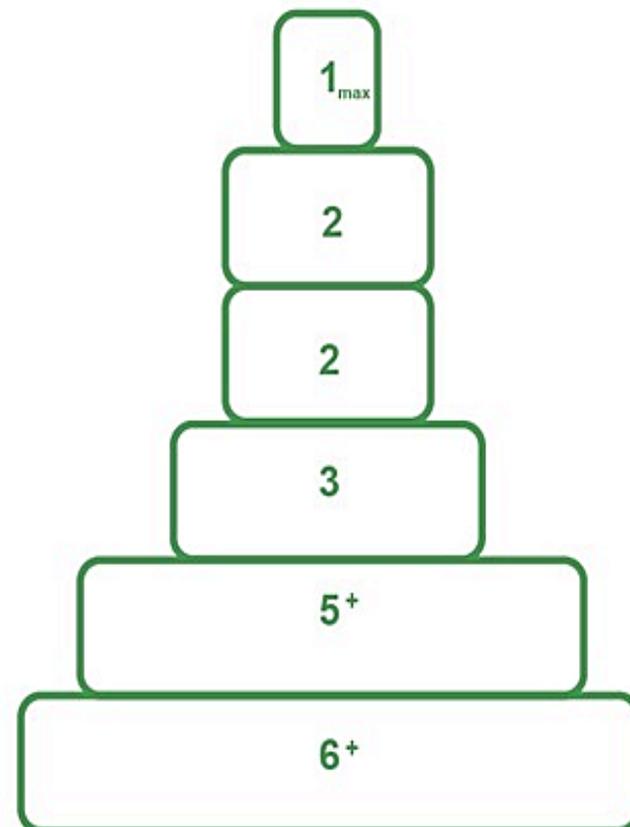
Fats & Oils

Meat, Poultry, Fish, Eggs,
Beans & Nuts

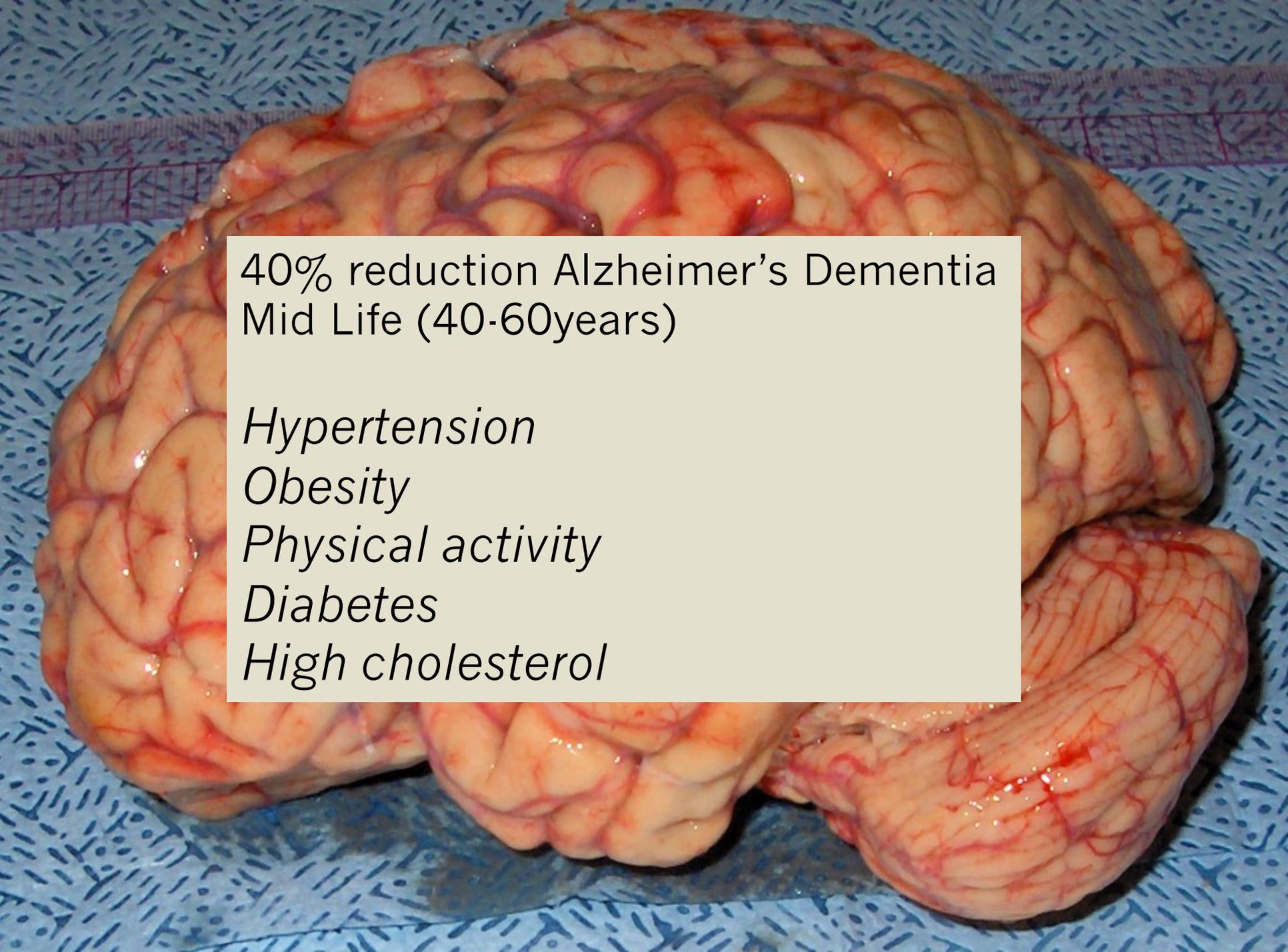
Milk, Yogurt & Cheese

Fruit & Vegetables

Bread, Cereal, Potatoes,
Pasta & Rice



DOH 2012-2016



40% reduction Alzheimer's Dementia
Mid Life (40-60years)

Hypertension
Obesity
Physical activity
Diabetes
High cholesterol

Community
Free Range

Acute hospital

Institution

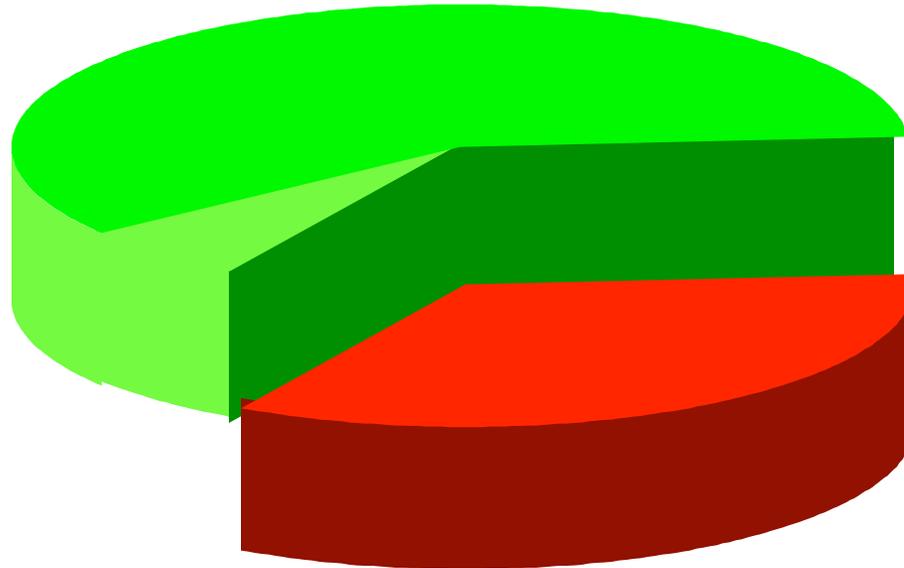
Adults > 50 years
Ireland and prevention
Model ambulatory care
admission avoidance



Newcastle Accident and Emergency Study

71,000

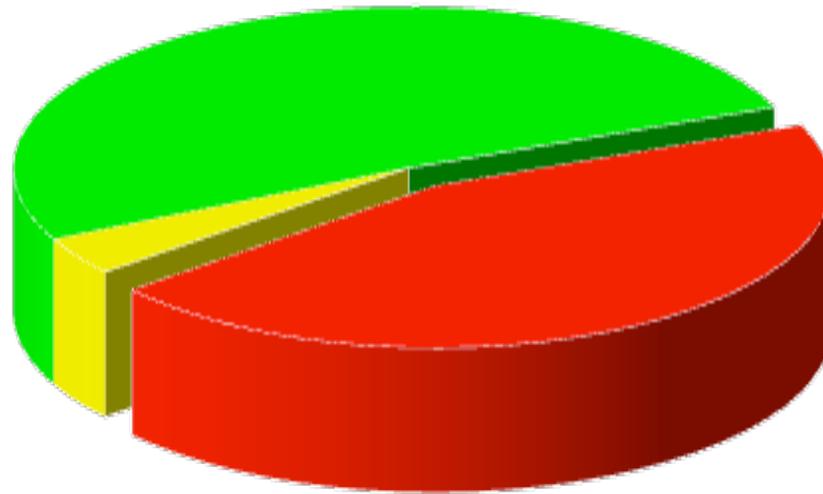
>50 years



Kenny et al *Journal Amer Cardiac, Journal Amer Geriatric Society
Lancet, BMJ, PACE, Age Ageing*

Newcastle Accident and Emergency Study

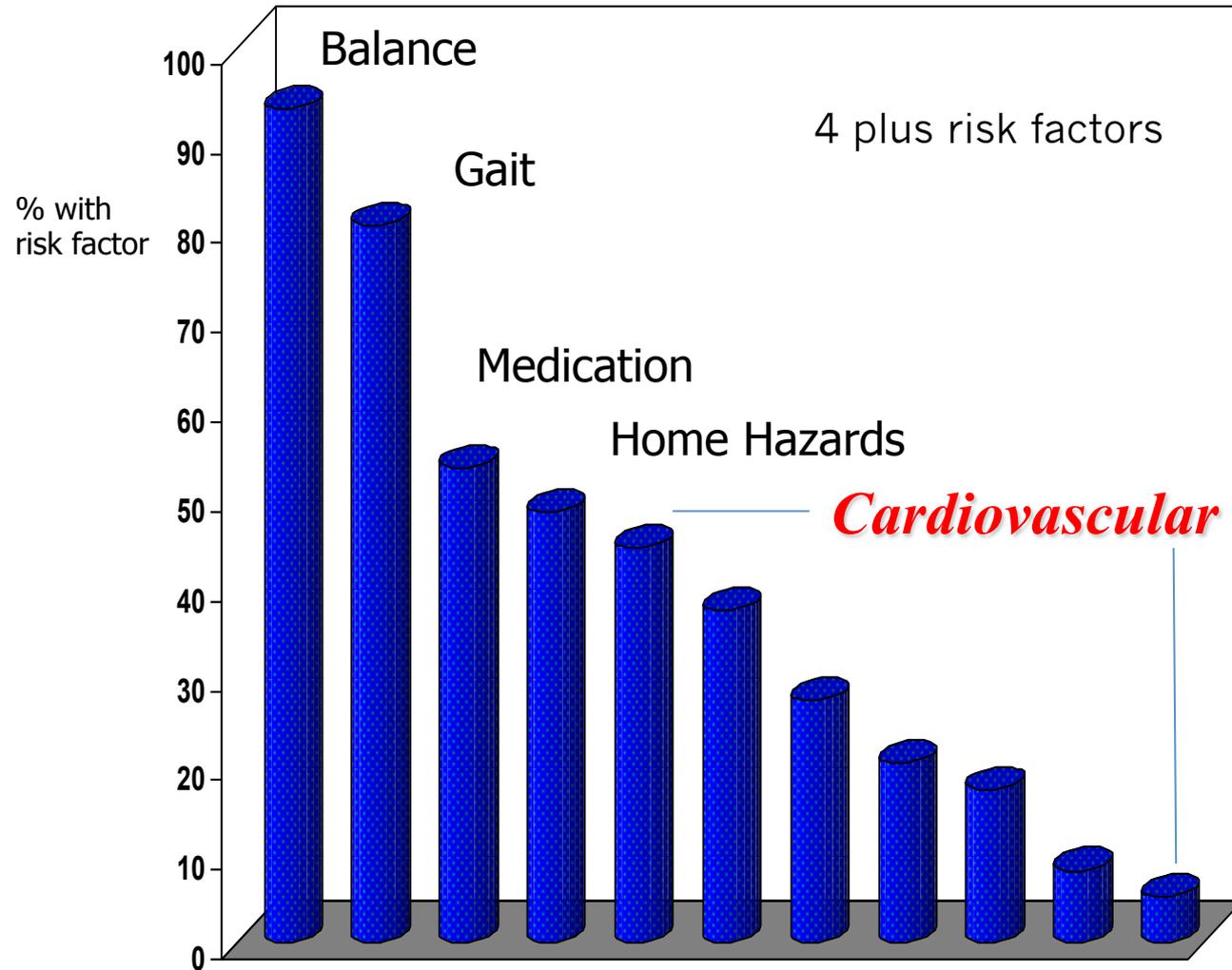
> 65 yrs



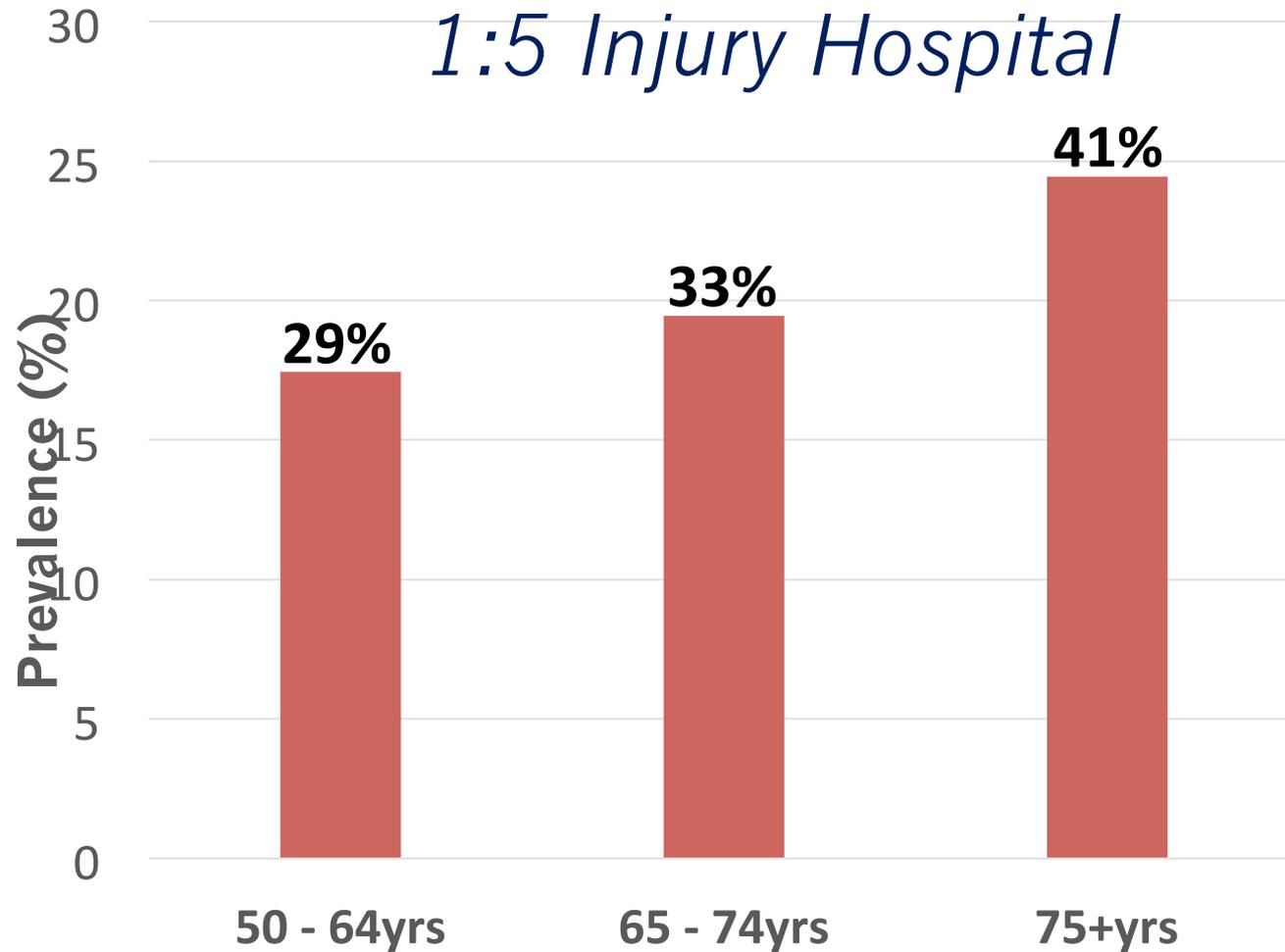
Fall/Syncope

45% (n=4793)

Risk Factors in Recurrent Falls



34% Fall previous 12 months



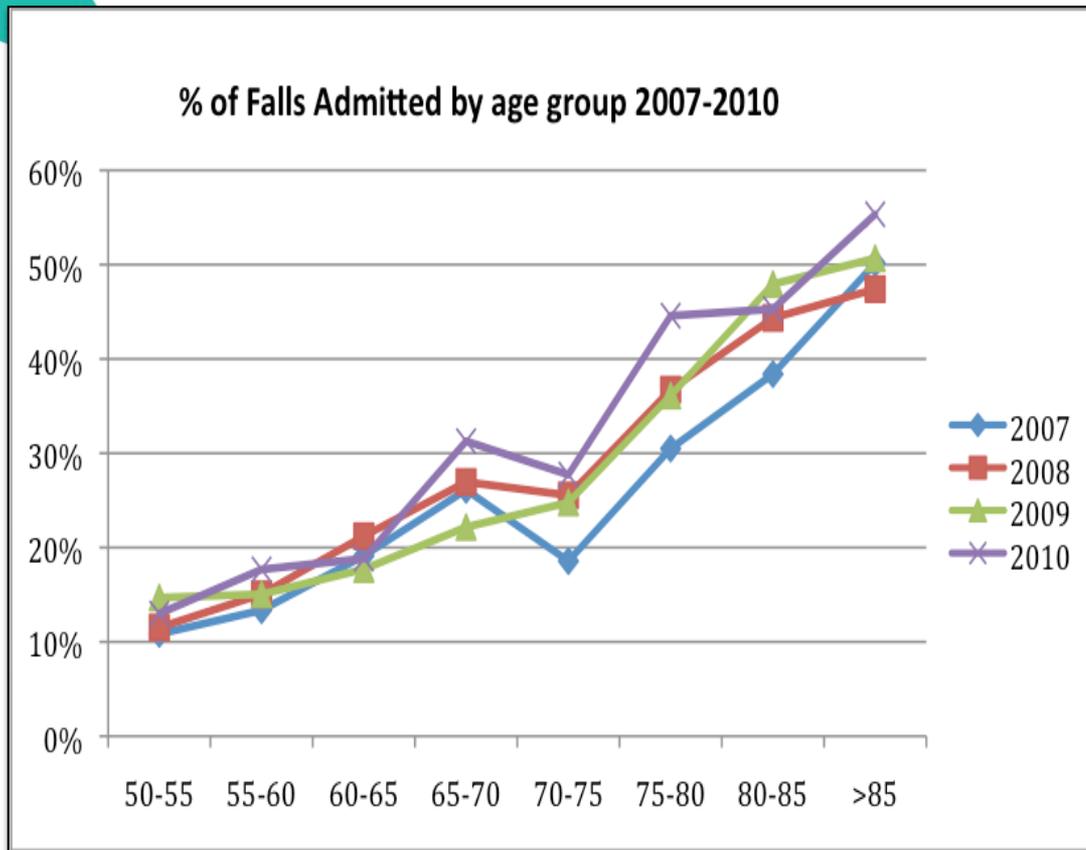
■ Falls

2014

Falls & Collapse >50 yrs

- Galway
- St James
- Tallaght
- Sligo
- 3rd - 4th commonest cause for admission
- 2nd - 3rd commonest diagnosis at discharge

Fallers admitted to hospital by age



50% in the over 80yr age group are admitted after a fall

Dedicated ambulatory FALLS and SYNCOPE UNIT

- Pre FASU LOS Collapse Falls= 10.9days
- Post FASU LOS = 2.4days

Teaching hospital	Emergency Activity	Elective Activity
Scotland	99%	1%
RVI Newcastle	38% (2.4 vs 8.6 LOS)	38%
England	97%	62%
England	97%	97%

Variance -6166 bed days/ year;
18 bed ward/year;
Cost – 240k/year;
Estimated Savings – 1.3million.

Dedicated ambulatory FALLS and SYNCOPE UNIT

- **Same day**
- **One week**
- **3 weeks**

Variance -6166 bed days/ year;
 18 bed ward/year;
 Cost – 240k/year;
 Estimated Savings – 1.3million.

Teaching hospital	Emergency Activity	Elective Activity
Scotland	99%	1%
RVI Newcastle	38% (2.4 vs 8.6 LOS)	38%
England	97%	62%
England	97%	97%

EHRA Consensus Document on Syncope Unit: Rationale and Requirement

Management of falls and syncope

Service development and education and training

Task Force members:

Rose-Anne Kenny (Chairperson)¹, Michele Brignole (Co-chairperson)², Gheorghe-Andrei Dan³, Jean Claude Deharo⁴, Gert van Dijk⁵, Colin Doherty⁶, Mohamed Hamdan⁷, Angel Moya⁸, Steve Parry⁹, Richard Sutton¹⁰, Andrea Ungar¹¹, Wouter Wieling¹²

- 1 Falls and Syncope Unit, St. James's Hospital Dublin Ireland
- 2 Ospedali Del Tigullio, Lavagna-Italy
- 3 Colentina University Hospital, Bucharest - Romania
- 4 Hopital Timone Adultes, Marseille - France
- 5 Leiden University Medical Centre, Netherlands
- 6 St James's Hospital/Trinity College Dublin, Ireland
- 7 University of Wisconsin Hospital and Clinics, Wisconsin United States of America
- 8 Hospital Vall D'hebron, Barcelona, Spain
- 9 Tyne and Wear United Kingdom
- 10 Emeritus Professor of Clinical Cardiology, National Heart & Lung Institute, Imperial College, London, UK
- 11 University Of Florence - Italy
- 12 Academic Medical Centre, Amsterdam, Netherlands

External contributors

Europe: Mehran Asgari¹, C

Frederik J de Lange², Germaine Hurlimann³, Peter Hradec⁴, Alina Hruach⁵, Cristian Podoleanu⁶, Antonio Raviola⁷

North America: David Benditt⁸, Andrew Krahn⁹, Carlos Arturo Morillo¹⁰, Brian Olshansky¹¹, Satish Raj¹², Robert Sheldon¹³, Win Kuang Shen¹⁴, Benjamin Sun¹⁵;

South America: Denise Hachul¹⁶; Asia: Haruhiko Abe¹⁷, Toshiyuki Furukawa¹⁸

- 1 William Harvey Hospital, Kent, UK
- 2 Hospital Universitario Virgen del Rocío, Sevilla, Spain
- 3 Hopital de la Cavale Blanche, Brest, France
- 4 Ospedale Santi Antonio e Biagio e Cesare Arri, Alessandria, Italy
- 5 St. James's Hospital, Dublin, Ireland
- 6 Skane University Hospital; Malmo, Sweden
- 7 Humanitas Research Hospital, Rozzano, Italy
- 8 King's College Hospital, London, UK
- 9 Amsterdam, Netherlands
- 10 Dublin, Ireland
- 11 Institute Of Heart Disease And Vascular Disease, Kosice, Ireland
- 12 Uniwersytet Jagiellonski, Krakow, Poland
- 13 Univ. Clinical Hospital, 4th Medical Clinic, Targu Mures, Romania
- 14 Cardiologist, Arrhythmologist, Mestre, Venice, Italy
- 15 University Of Minnesota Medical School, Minnesota United States of America
- 16 Vancouver General Hospital, British Columbia Canada
- 17 McMaster University, Phri, Hamilton, Ontario Canada
- 18 University of Iowa Hospitals and Clinics, Iowa United States of America
- 19 Vanderbilt University, Tennessee United States of America
- 20 University Of Calgary, Canada
- 21 Mayo Clinic, AZ United States of America
- 22 Emergency Medicine, Oregon Health & Science University, Oregon United States of America
- 23 Instituto Do Coracao, Sao Paulo, Brazil
- 24 Department Of Heart Rhythm Management, Univ. Occup. & Environment Health, Kitakyushu, Japan
- 25 Division of Cardiology, St. Marianna University School of Medicine, Kawasaki, Kanagawa Japan

Endorsed 38 countries



An elderly person with grey hair is lying face down on a dark wooden floor. They are wearing a light-colored, textured sweater. A white pulse oximeter is attached to their left index finger, with a thin wire extending across the floor. The background is blurred, showing what appears to be a living room with a chair and a table.

Education and Training

RCPI biennial diploma

St James annual 3 day course

Nurses, physicians, physiotherapists

AMAU, ED, Geriatric,

Cardiology, Neurology

Community
Free Range

Acute hospital

Institution

Adults > 50 years
Ireland and prevention
Model ambulatory care
admission avoidance

INNOVATIVE
DISRUPTION

Changes that will make a difference

HMI^í

Health Management Institute of Ireland

www.hmi.ie/conference/

Best place to care –
innovation solutions

Professor Rose Anne Kenny

*Chair of Medical Gerontology, Director of Falls
and Syncope Unit, St. James's Hospital
and Trinity College Dublin*