

Bridging Research & Practice
Overweight, obesity & chronic health
conditions in women with an
intellectual disability at menopause in
Ireland



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The Intellectual Disability Supplement to the Irish longitudinal Study on Ageing (IDS TILDA)

Background and context

 Overweight and obesity is a chronic disease, occurring where excess body fat poses health risk

Nearly a quarter of the world's population are either overweight or obese

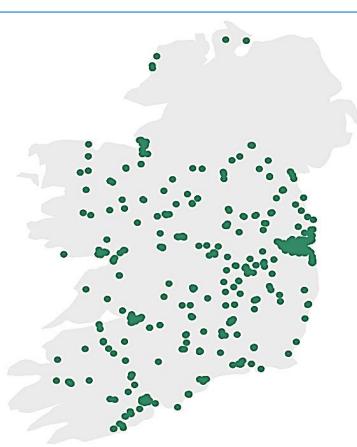
- It is the fifth principal cause of death globally
- Central Adiposity increases the risk of developing metabolic disease
- Ireland ranked in the top 4 countries for obesity
- More prevalent in women with an ID



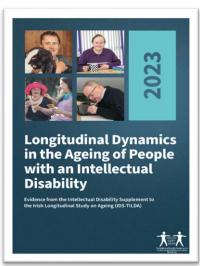


The IDS-TILDA Story [2007 – 2023]





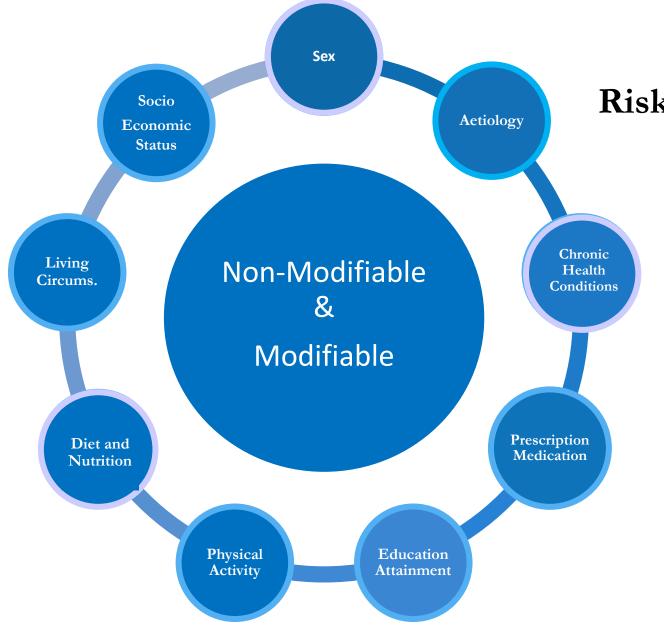




Longitudinal study collecting data every 3 years which we refer to as a wave

First nationally-representative longitudinal study on ageing with an intellectual disability comparable to the general population

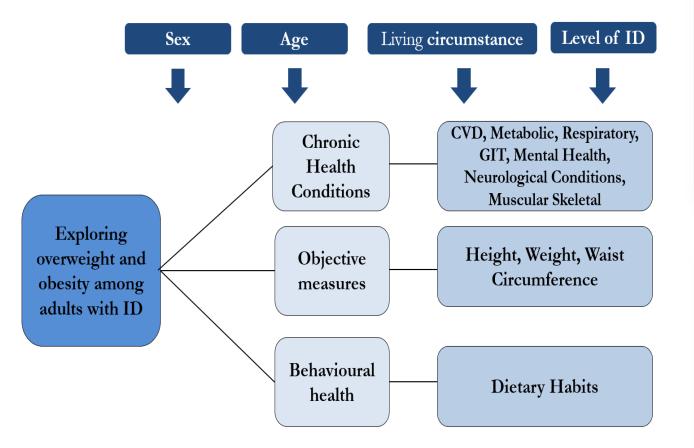






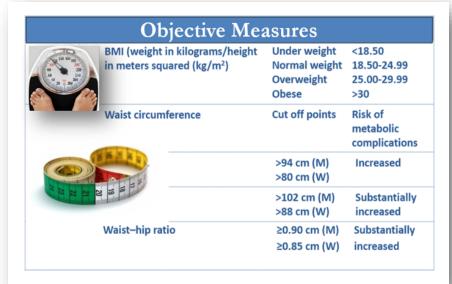


Framework guiding this study

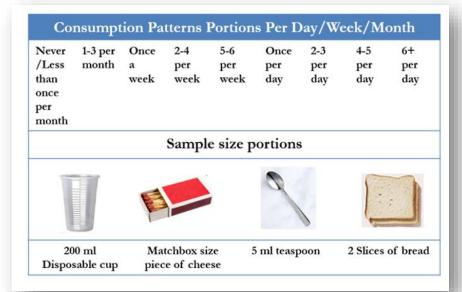


Objective Measures





Food Frequency Questionnaire





IDS-TILDA Wave 2 Women (N=393)

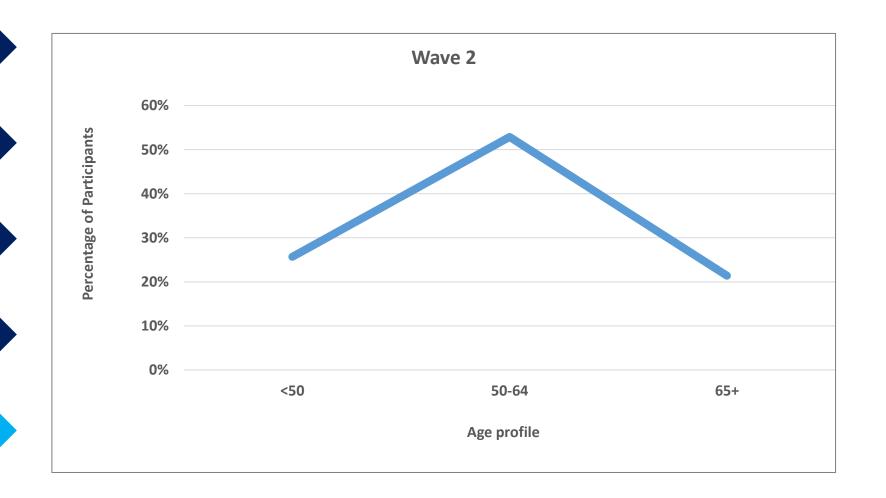
Wave 1 753 Participants

Wave 2 708 Participants

Wave 3 609 Participants

Wave 4 739
Participants
(233 new)

Wave 5 762 Participants (141new)



Women, Menopause and overweight and obesity (n=350)



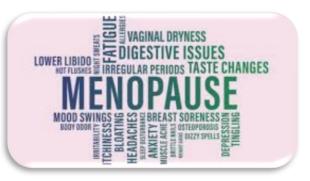
75% of women who had **gone through the menopause** were overweight or obese

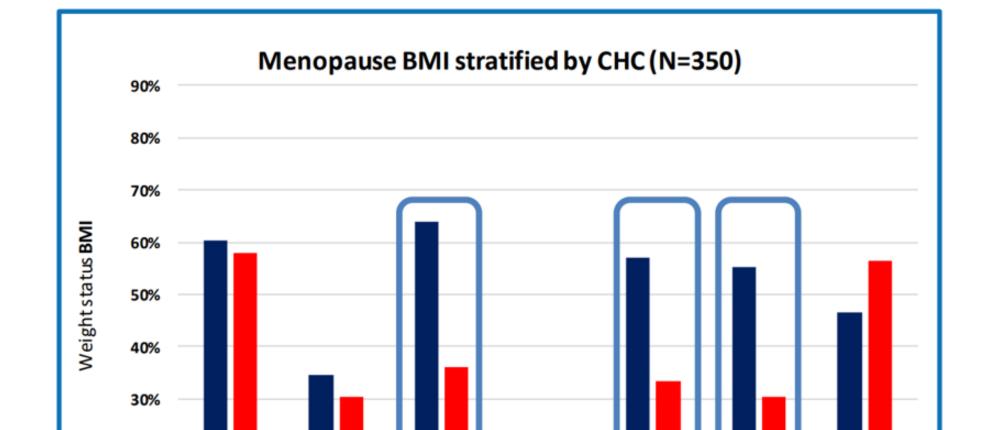
76% of women at menopause had a waist circumference which exposed them to the **risk of metabolic disease**

Of all the women at menopause 54% had a moderate ID

Of all the women living in a **community group home** 47% were overweight or obese







OW/OB

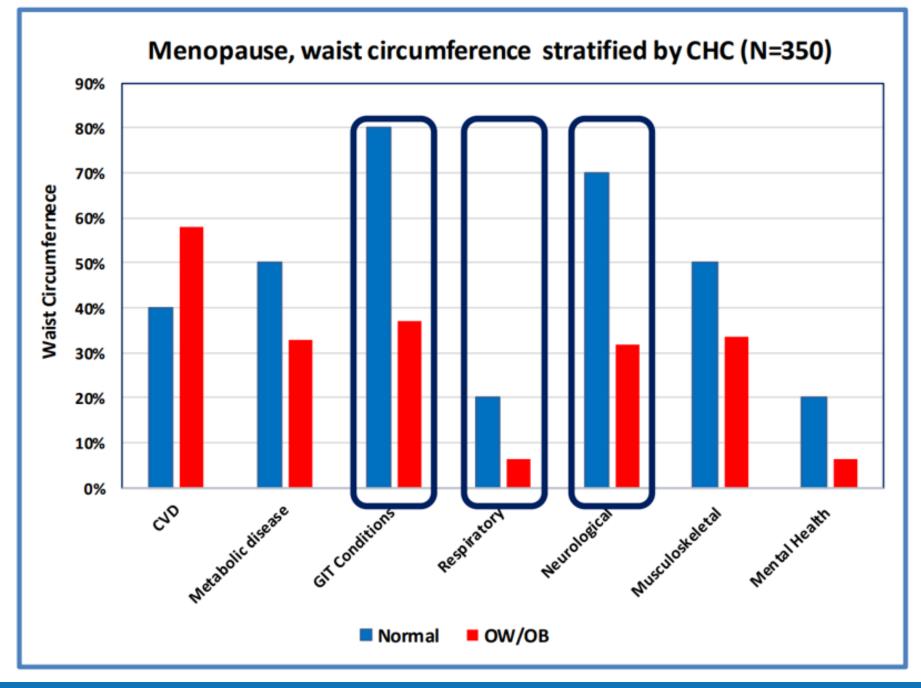
Normal



20%

10%

0%





Logistical Regression



Modelling - Women - Chronic Health Conditions on BMI and waist circumference





Logistical Regression of the Risk Factors for CHC in Women who were Overweight/obese or with a Waist Circumference in the at Risk of MetS Category

| | | reference category with the condition or not | | | | | | |
|----------------------------|---------|--|----------------|---------|---------------------|----------------|--|--|
| | | ВМІ | | | Waist Circumference | | | |
| | p-value | Adjusted Odds | 95% confidence | p-value | Adjusted Odds | 95% confidence | | |
| | | Ratio (OR) | interval (CI) | | Ratio (OR) | interval (CI) | | |
| GIT (no GIT) | 0.008 | 1.248 | 1.060 – 1.470 | 0.046 | 1.516 | 1.007 – 2.284 | | |
| Neurological (no neuro) | 0.016 | 1.218 | 1.037 – 1.431 | 0.060 | 1.405 | 0.986 – 2.004 | | |
| Muscular Skeletal (no MSK) | 0.012 | 1.232 | 1.048 – 1.449 | 0.746 | 1.058 | 0.753 – 1.485 | | |

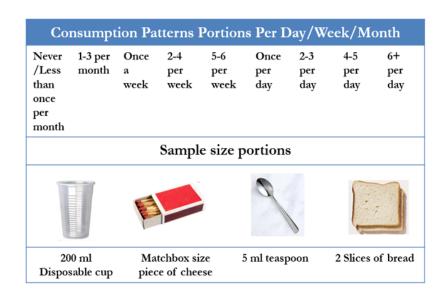
Food Frequency Questionnaire (n=584/609) - Portions Per Day

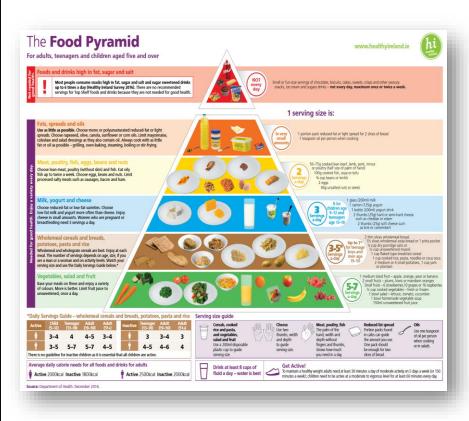


Questions on Dietary Patterns Answers Choices (food and drinks)

FFQ 13 Food Groups:

- Meat and meat alternatives
- 2. Fish and poultry
- 3. Bread and savoury biscuits
- 4. Cereals
- 5. Potatoes, rice and pasta
- 6. Dairy products and fats
- 7. Bread or vegetables
- 8. Fruit
- 9. Vegetables fresh, frozen or tinned
- 10. Sweets and snacks
- 11. Soups, sauces and spreads
- 12. Drinks
- 13. Other food items







Portions Per Day Food Frequency Questionnaire (portions per day)

| Portions Per Day/week/Month on the Food Frequency Questionnaire | | | | | | | | |
|---|---------|--------|---------|---------|--------|---------|---------|-------|
| Never/less than once a month | 1-3 per | Once a | 2-4 per | 5-6 per | Once a | 2-3 per | 4-5 per | 6+per |
| | month | week | week | week | day | day | day | day |

Recommendations on the Food Pyramid (servings per day)

| Shelf of Food Pyramid | | Portions Per Day | | | | |
|-----------------------|--|--|--|--|--|--|
| Shelf 1 | Vegetables, salad and fruit | 5-7 servings per day | | | | |
| Shelf 2 | Wholemeal cereals and breads, potatoes, pasta and rice | 3-7 servings per day (up to 7 for teenage boys and men aged 19-50) | | | | |
| Shelf 3 | Milk, yogurt and cheese | 3 servings per day | | | | |
| Shelf 4 | Meat, poultry, fish, eggs, beans and nuts | 2 servings per day | | | | |
| Shelf 5 | Fats, spreads and oils | In very small amounts | | | | |
| Shelf 6 | Foods and drinks high in fat, sugar and salt | Not every day maximum once or twice a week | | | | |

Mapped to the Food Pyramid Recommended Daily Amount (RDA) > than the RDA = to the RDA < than the RDA

Compliance with nationally recommended mean number of food portions per food group per day (N=584)



| Food Pyramid shelf | RDA | n | % | Mean no. of portions per day | SD | Total | |
|--------------------|---|-----|------|------------------------------|----------------|-------|--|
| Shelf 1- | | | | 2.28 | <u>+</u> 0.769 | 584 | 5-7 servings per day |
| | >RDA per day | 195 | 33.4 | | | | Vegetables, salad & fruit |
| | RDA per day | 114 | 19.5 | | | | v egetuoies, suud & fraii |
| | <rda day<="" per="" td=""><td>275</td><td>47.1</td><td></td><td></td><td></td><td></td></rda> | 275 | 47.1 | | | | |
| Shelf 2- | | | | 2.49 | ±0.847 | 583 | 3-7 servings per day |
| | >RDA per day | 28 | 4.8 | | | | W holemeal cereals & breads, potatoes, pasta & |
| | RDA per day | 136 | 23.3 | | | | 1 1 |
| | <rda day<="" per="" td=""><td>419</td><td>71.9</td><td></td><td></td><td></td><td>nd rice</td></rda> | 419 | 71.9 | | | | nd rice |
| Shelf 3- | | | | 2.36 | ±0.762 | 583 | 3 servings per day |
| | >RDA per day | 172 | 29.5 | | | | Milk, yogurt & cheese |
| | RDA per day | 102 | 17.5 | | | | 1vium, yoguri & timest |
| | <rda day<="" per="" td=""><td>309</td><td>53</td><td></td><td></td><td></td><td></td></rda> | 309 | 53 | | | | |
| Shelf 4 - | | | | 2.11 | ±0.688 | 583 | 2 servings per day |
| | >RDA per day | 301 | 51.6 | | | | Meat, poultry, fish, eggs, beans & nuts |
| | RDA per day | 110 | 18.9 | | | | 1 (1 teat, pontit y, fish, eggs, beans & hais |
| | <rda day<="" per="" td=""><td>172</td><td>29.5</td><td></td><td></td><td></td><td></td></rda> | 172 | 29.5 | | | | |
| Shelf 5 - | | | | 2.09 | ±0.558 | 579 | In very small amounts |
| | >RDA per day | 394 | 68 | | | | Fats, spreads & oils |
| | RDA per day | 66 | 11.4 | | | | 1 ais, spreads & ous |
| | <rda day<="" per="" td=""><td>119</td><td>20.6</td><td></td><td></td><td></td><td></td></rda> | 119 | 20.6 | | | | |
| Shelf 6 - | | | | 2.02 | ±0.194 | 580 | Not every day maximum once or |
| | >RDA per day | 558 | 96.2 | | | | |
| | RDA per day | 6 | 1 | | | | twice a week |
| | <rda day<="" per="" td=""><td>16</td><td>2.8</td><td></td><td></td><td></td><td>Foods & drinks high in fat, sugar & salt</td></rda> | 16 | 2.8 | | | | Foods & drinks high in fat, sugar & salt |



Recommendations

Health

- Recommendations for Policy
- Recommendations for Practice

Education

- Education for people with an ID
- Education for support teams

Policy

- Recommendations for National Policy
- Policy based recommendations for practice

Research

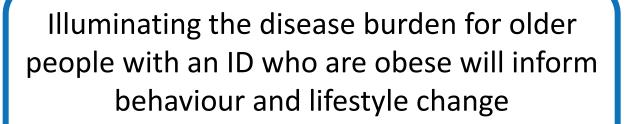
- Practice based research
- Health research
- Contributory factors in ID



To conclude

- Overweight and obesity is prevalent in older women with an intellectual disability
- Overweight and obesity compromises women's health
- Women with an intellectual disability are at risk and experience central adiposity
- Menopause is a time of risk for women with an intellectual disability
- Modifiable factors need to be considered
- Research and resources support practice improvements









Thank You

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