

Nutrition in the Elderly

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REGISTERED NUTRITIONIST

The Main Problems in Elderly

- Undernutrition
- Overnutrition
 - Overweight
 - Obesity
- Health Conditions
 - High blood pressure
 - High cholesterol
 - Diabetes
 - Arthritis
 - Others e.g. stomach and intestinal problems



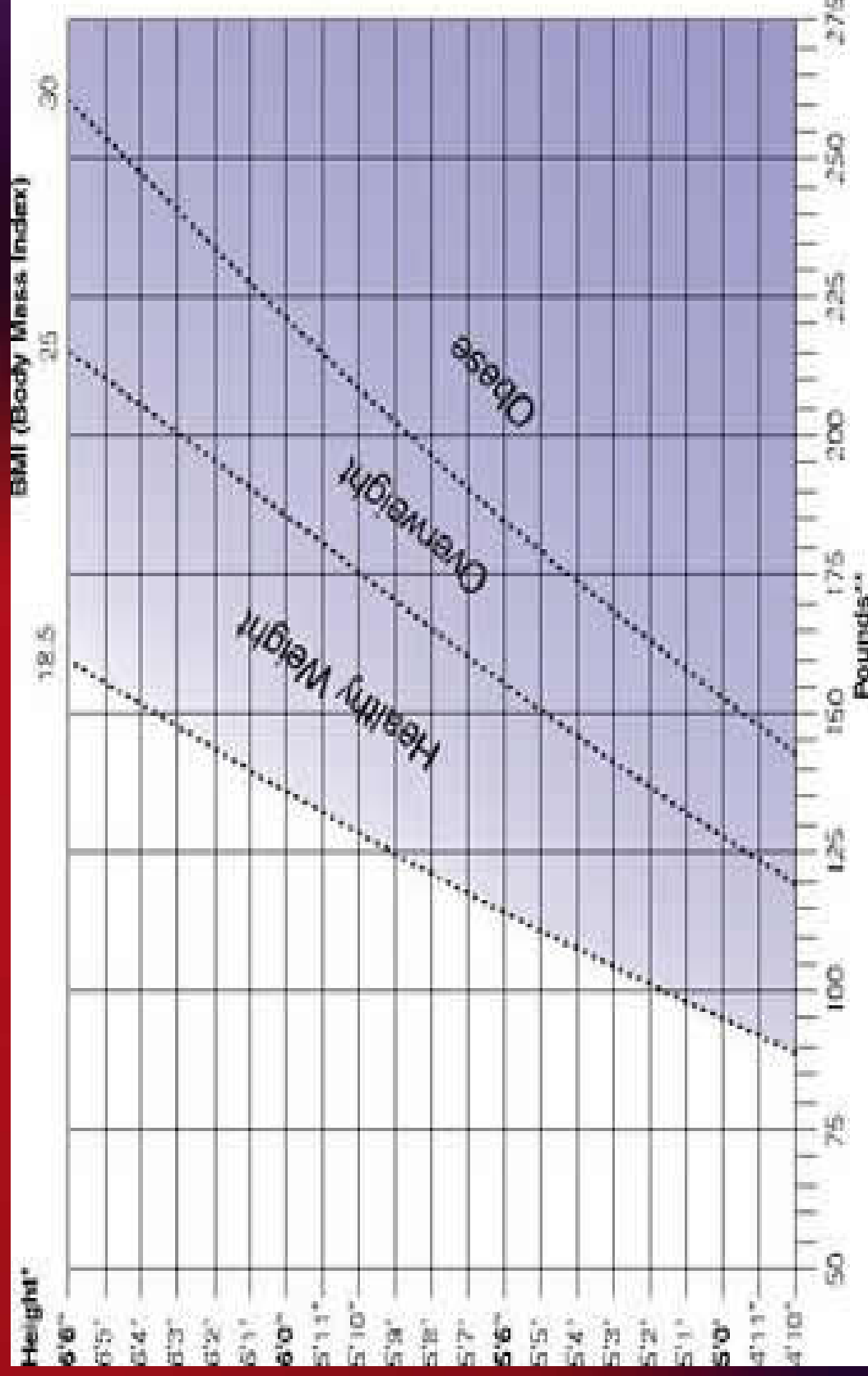
Weight Classification

Body Mass Index (BMI): $\frac{\text{Weight (kg)}}{\text{Height}^2 \text{ (m}^2\text{)}}$

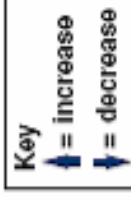
Ratio: < 20 – Underweight
20-25 – Normal weight range
25-30 – Overweight
30-35 – Obese I
>35 – Obese II



Weight Classification



Reasons for Undernutrition



The Obesity Epidemic



- Western Europe: 10-25%
- U.S.: 20-30%
- Eastern Europe, Mediterranean, U.S. Afro-American Women: 40%
- Higher Rates: American Indians, Hispanic Americans, Pacific Islanders
- Highest in the World: Melanesians, Micronesians, Polynesians (Island of Nauru: 70% or women and 65% of men)
- “Key to the problem lies in evermore widespread sedentary lifestyle and a diet overrich in calories and fats.”

Implications of Obesity



- Insulin Resistance
- Diabetes Type II
- Hypertension
- Dyslipidemia
- Coronary Heart Disease
- Gout
- Osteoarthritis
- Gall Bladder Disease & Stones
- Cancers of Bowel, Breast, GU Tract
- Skin Diseases (especially fungal diseases)
- Sleep Apnea with chronic hypoxia

Breast Cancer Risk with Obesity

Pre-menopause

Risk

- Thin 1
- Overweight 2x
- Obese 3x

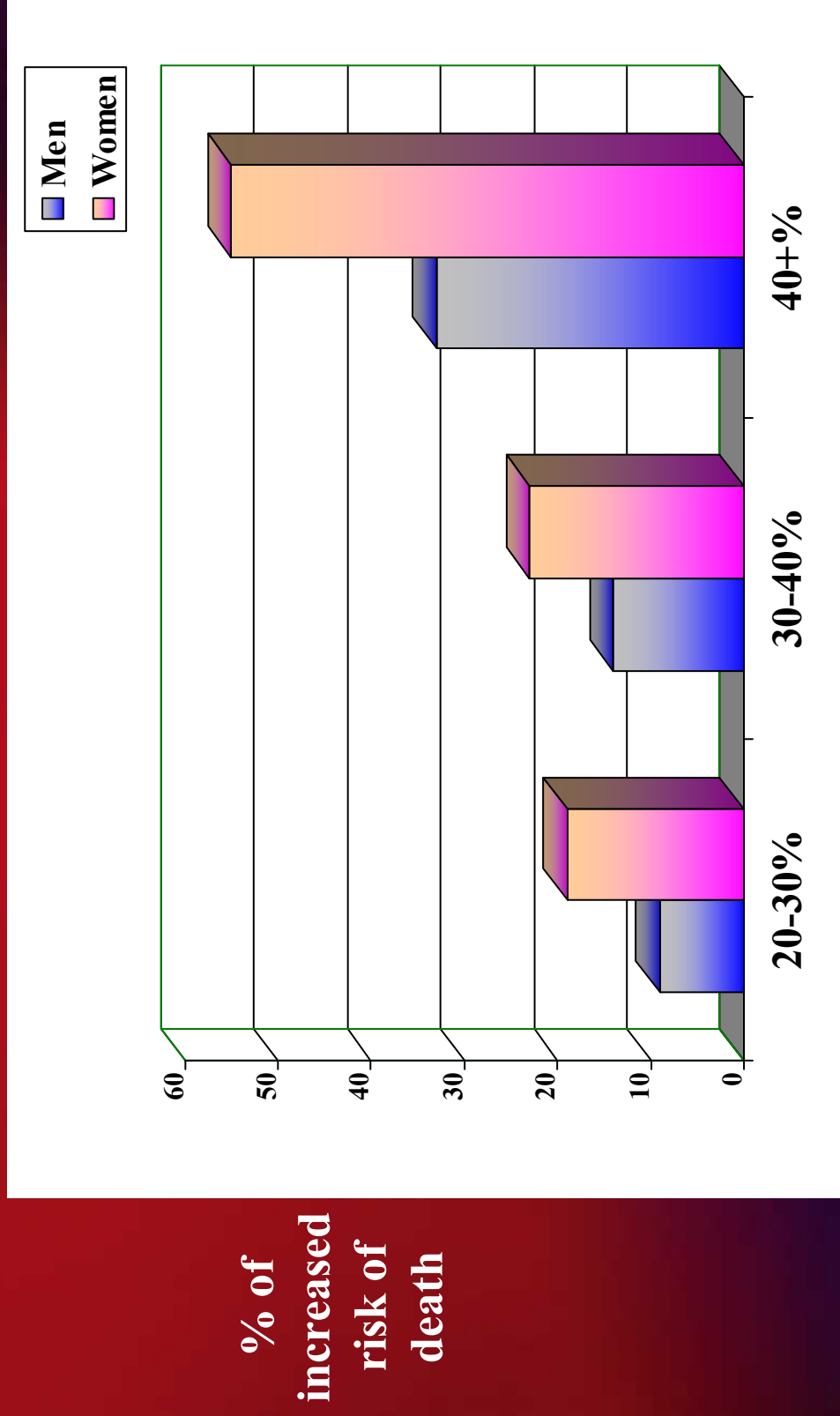
Post-menopause

Risk

- 1
- 5x
- 12x

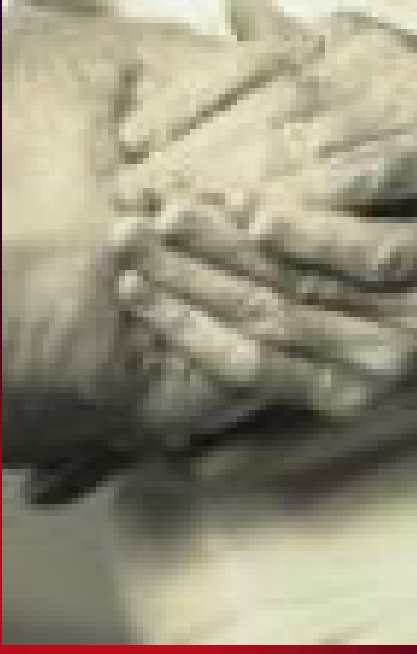


Risk of Death with Obesity

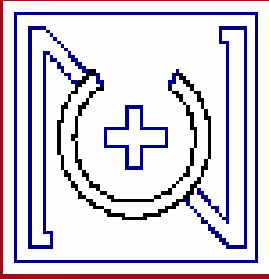


Above average body weight

Social & Psychological Implications of Obesity



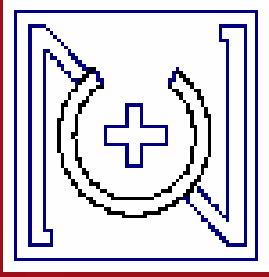
- Low self-esteem
- Increase in depression
- Tendency toward social isolation
- Decreased attractiveness for the opposite sex



Nutritional Services for the Elderly at Zammit Clapp Hospital

- Presence of a nutritionist on a weekly basis for:
 - Ward assessment of nutritional intake
 - Enteral and parenteral feeding regimes
 - Meal planning for in-/out-patients
 - Follow-up of patients before and after discharge
 - Formulation of special dietary requirements
 - Training of relatives in feeding techniques in preparation for discharge

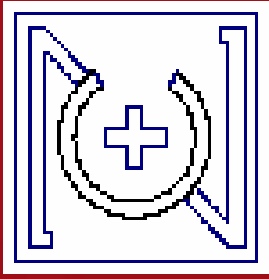




Special Diets for the Elderly at Zammit Clapp Hospital

- Special diets are required for persons with conditions such as:
 - Diabetes
 - High Blood Cholesterol
 - Gall Stones
 - High Blood Pressure
 - Obesity
 - Undernutrition

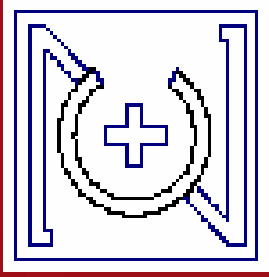




Meals for the Elderly at Zammit Clapp Hospital

- Meal planning within the hospital:
 - A rotating menu is agreed upon with the caterer
 - Choices are made a day before
 - Menus cater for low calorie, diabetic and low fat options
 - Minor alterations can be made early on the day

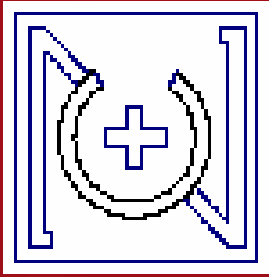




Nutritional Assessment for the Elderly at Zammit Clapp Hospital

- Nutritional assessment on admission is done using the Mini Nutritional Assessment Scale
 - This has been developed by a group of international geriatricians and a leading company of nutritional products.
 - It is both a **screening** and **assessment tool** for the identification of malnutrition mostly in the elderly.
 - This tool eliminates the need for more invasive tests such as blood sampling.
- **Blood investigations** e.g. serum proteins and albumin, serum electrolytes



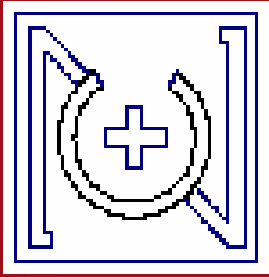


The Mini Nutritional Assessment

- The MNA assesses:

- appetite
- weight loss
- mobility status
- psychological stress
- dementia/depression status
- degree of independent living
- number of drugs taken per day
- pressure sore status

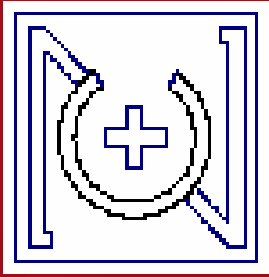




The Mini Nutritional Assessment

- The MNA assesses:
 - number of full meals eaten per day
 - number of protein servings taken per day
 - fruit and vegetables eaten daily
 - number of cups of fluid taken per day
 - degree of help needed for feeding
 - self-assessment of nutritional status
 - self-assessment of health status
 - mid-arm and calf circumference

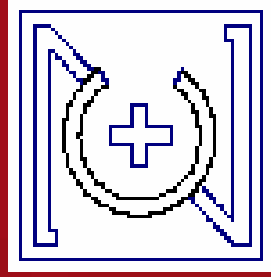




Obtaining More Dietary Information From The Elderly

- During individual sessions the nutritionist:
 - Includes relatives to obtain more information
 - Takes a food history – first visit
 - Calculates calorific needs and intake plus mineral and vitamin levels using nutritional analysis software
 - Asks them to keep a diary
 - Keeps weight records
 - Maintains regular follow-ups





Our Aim For The Elderly

- Maximum independence
- Healthy lifestyle

