The IAEA supports Member States in using nuclear nutrition techniques throughout the stages of cancer to inform prevention programmes and guide patient nutrition care during treatment and beyond.

**Nuclear Techniques** used for nutrition-related assessment in cancer

- **Stable isotopes**
  - Energy expenditure
  - Body composition
  - Gut function and infection
  - Breast feeding

- **DXA scan**
  - Body composition
  - Bone density

- **CT scan**
  - Body composition

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**PREVENTION » DETECTION » DIAGNOSIS » TREATMENT**

**AROUND 30-50% OF CANCER CASES ARE PREVENTABLE**

- Breastfeeding **DECREASES** the risk of **BREAST CANCER** in the mother
- *H. pylori* infection **INCREASES** the risk of **GASTRIC CANCER**
- Greater body fatness **INCREASES** the risk of **12 CANCERS**
- Being physically active **DECREASES** the risk of **3 CANCERS**

**UP TO 80% OF PATIENTS EXPERIENCE MALNUTRITION DURING TREATMENT**

- Cancer and its treatment can lead to **MUSCLE WASTING** and/or **FAT GAIN**
- Cancer and its treatment can impact **ENERGY EXPENDITURE**
- Cancer and its treatment can **INCREASE** the risk of **OSTEOPOROSIS**