1 **Collection of multimodal osteoporosis cases**

👥 Patient: 803 cases   🦴 X-ray: 1620 images   🖥 CT: 280 cases

2 **Harmonization of clinical data**

- **Demographic information:** Age, gender, and ethnicity
- **Anthropometric measurements:** Height, weight, and BMI
- **Osteoporosis Label:** 0 = Normal; 1 = Osteopenia; 2 = Osteoporosis
- **Lumbar DXA scan data** (for L1-L2, L1-L3, L1-L4, L2-L3, L2-L4, L3-L4):
  - bmd: Bone Mineral Density values
  - T,Z: T-scores and Z-scores derived from BMD measurements
  - bmc, s: Bone Mineral Content (bmc) and area measurements
  - avgh/avgw: Computed vertebral height/width averages

3 **Clear folder structure**