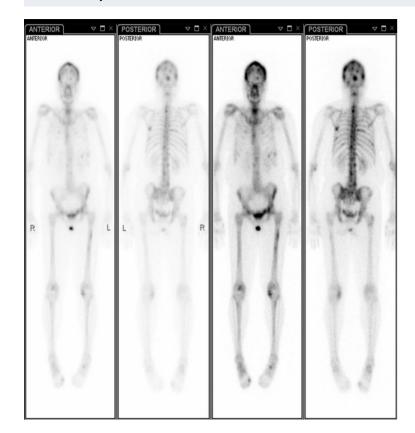
Central Nervous System: Case 6 cont.

Prompt

Which parts of the skeleton are affected in this case according to the bone scan?



GPT-4V

Based on the bone scan you provided, areas with increased uptake (often referred to as "hot spots") can be indicative of increased bone metabolism or activity, which might be seen in conditions such as fractures, infections, tumors, or metabolic disorders. From the images, it appears there is increased uptake in:

- 1. The left hip/pelvic region.
- 2. The region around the right.

Reference answer

The calvarial bones, ribs, spinal vertebrae, scapula, pelvic bones, and femora.

Prompt

Generate a radiology report for this nuclear medicine imaging.

GPT-4V

Patient: [Patient Name]

Study: Whole Body Bone Scan

Technique: Anterior and posterior whole body images were obtained after intravenous administration of a technetium-99m labeled diphosphonate.

Findings:

- 1. There is focal increased radiotracer uptake noted in the left hip/pelvic region. This could be secondary to a variety of etiologies including metastasis, fracture, osteoarthritis, or infection. Clinical correlation and further targeted imaging such as MRI or X-ray might be helpful.
- 2. Another focal area of increased uptake is seen around the right knee, which may be indicative of a localized process such as arthritis, a healing fracture, or other pathologies.
- 3. The rest of the visualized skeletal system appears to have homogenous radiotracer distribution with no other abnormal focal increased or decreased uptake.

Impression:

- Focal increased radiotracer uptake in the left hip/pelvic region. Further evaluation with targeted imaging is recommended.
- Increased uptake in the region around the right knee suggestive of a localized pathology. Further clinical correlation is advised.

Reference answer

Areas of increased radiotracer uptake are noted involving the calvarial bones, ribs, spinal vertebrae, scapula, pelvic bones, and femora on bone scan suggestive of skeletal metastasis.