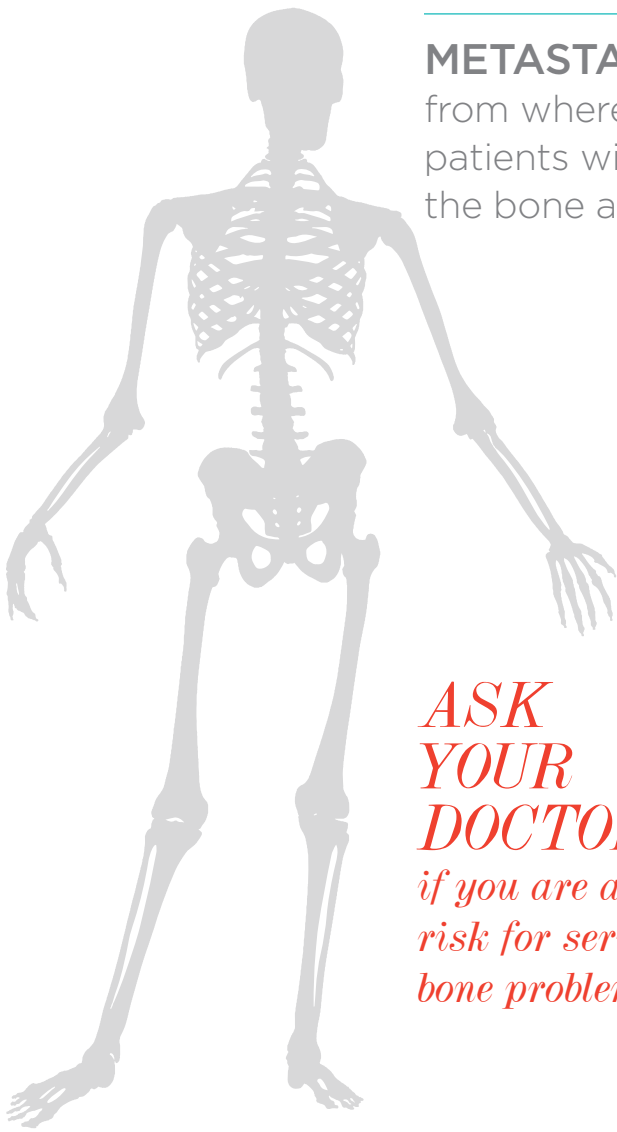


THE EFFECTS OF *metastatic cancer* ON YOUR BONES



METASTATIC CANCER refers to cancer that has spread from where it started to another part of the body.¹ In patients with metastatic cancer, cancer cells often settle in the bone and start growing, resulting in bone metastases.²

*ASK YOUR DOCTOR if you are at risk for serious bone problems**

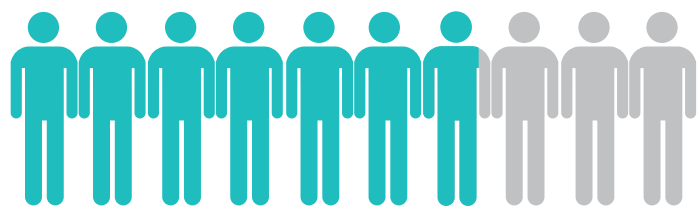
73% of women who had advanced metastatic **BREAST CANCER** had bone metastases.³



36% of patients who had advanced metastatic **LUNG CANCER** had bone metastases.³

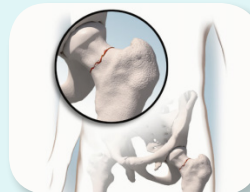


68% of men who had advanced metastatic **PROSTATE CANCER** had bone metastases.³



THE IMPACT OF PROGRESSIVE DISEASE ON BONE HEALTH

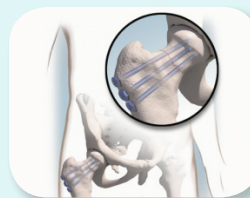
When cancer spreads to the bones, patients are at risk of developing serious bone problems.^{3,4} **Serious bone problems are:**



FRACTURES, which can be painful and may have difficulty healing.⁵



SPINAL CORD COMPRESSION, which occurs when cancer grows in the spinal bones and presses on the spinal cord. This can also damage the spinal cord nerves causing numbness, weakness, or possibly paralysis.²



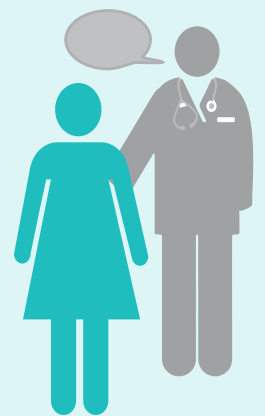
NEED FOR SURGERY TO THE BONE, which often requires post-surgical rehabilitation time.⁶



NEED FOR RADIATION TO THE BONE.²

It's important to know that bone pain is not always a reliable indicator for the risk of serious bone problems.⁷

As such, it is very important to have ongoing conversations with your doctors and nurses about your bone health and how it plays into your overall treatment goals.



- KEY QUESTIONS TO DISCUSS WITH YOUR DOCTOR:**
1. Am I at risk for serious bone problems?
 2. What can I do to help prevent serious bone problems?
 3. Should I have a bone scan and if so, how often?
 4. Where can I go for more information?

* Serious bone problems are: broken bones (fractures), need for surgery to prevent or repair broken bones, need for radiation treatments to the bone, and pressure on the spinal cord (spinal cord compression).⁴

REFERENCES

1. American Cancer Society. "Advanced Cancer" Available at: <http://www.cancer.org/acs/groups/cid/documents/webcontent/003082-pdf.pdf>. Last revised: 2014. Accessed Sept. 2015.
2. American Cancer Society. "Bone Metastasis" Available at: <http://www.cancer.org/acs/groups/cid/documents/webcontent/003087-pdf.pdf>. Last revised: 2014. Accessed Sept. 2015.
3. Coleman RE. Clinical Features of Metastatic Bone Disease and Risk of Skeletal Morbidity. *Clin Cancer Res.* 2006;12(suppl 20):6243s-6249s.
4. Brodowicz T, O'Byrne K, Manegold C. Bone Matters in Lung Cancer. *Ann Oncol.* 2012;23:2215-2222.
5. Coleman RE. Management of Bone Metastases. *The Oncologist.* 2000;5:463-470.
6. Wood TJ, Racano A, Yeung H, et al. Surgical Management of Bone Metastases: Quality of Evidence and Systemic Review. *Ann Surgical Oncology.* 2014;21:4081-4089.
7. Saad F, Eastman J. Zoledronic Acid Improves Clinical Outcomes When Administered Before Onset of Bone Pain in Patients With Prostate Cancer. *Urology.* 2010;76:1175-1181.