

**Author(s):** Aken Desai, Michael Mathis, 2008

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# Neoplasia II

Thursday, May 08, 2008

1:00 PM

- **Metastasis Cascade**
  - Invasion of **Basement Membrane** --> Invasion of **Extracellular Matrix** --> **Intravasation** (get into flowing lymph/blood) --> **Embolization** (float through vessels) --> **Extravasation** (lodge somewhere along course) --> **Angiogenesis/Growth**
- **Dormancy** – period after metastasis lodges before growth occurs (“seeds” of metastasis aren’t growing yet)
- **Metastasis Appearance** – looks like cells from primary tissue, not tissue where metastasis lands!
  - **QUIZ:** Think about age/gender/etc of patient to get clues about where primary might be
  - Ex: **squamous cell carcinoma** of larynx – much more likely if middle-aged smoker
  - Look for either **squamous cell** tissue or **glandular “adenocarcinoma”** tissue
- **Metastasis Pathways**
  - **Lymphatic** – often causes **enlarged lymph nodes** (but enlargement not indicative of metastasis!)
  - **Hematogenous** – slides show tumor metastases from **GI tract, testicle, breast**
    - **Pathologic Fracture** – eating away at bone by metastasis, causing fracture = **osteolytic**
    - **Osteoblastic Metastases** – can cause bone growth
  - **Direct** – invade directly through tissue
    - **Diaphragm underside** from ovarian cancer