

Title : Assessment of bone-targeting agents use in patients with bone metastasis from breast, lung, or prostate cancer using structured and unstructured electronic health records from a regional UK-based hospital

Appendix A

ICD-10 diagnosis codes for the primary cancers

Condition	ICD10 code	ICD10 Description
Breast Cancer (BC)	C50	Malignant neoplasm of breast
Non-small cell lung cancer (NSCLC)	C34	Malignant neoplasm of lung + morphology codes to identify NSCLC subgroups in Appendix B below
Prostate Cancer	C61	Malignant neoplasm of prostate

Appendix B

ICD-10 Morphology codes for Adenocarcinoma (NON-Squamous NSCLC, Squamous-cell Carcinoma and NSCLC NOS)

	ICD-0-2 Morphology codes
Adenocarcinoma (non-squamous NSCLC)	Adenocarcinoma UNS 81403 Enteric adenocarcinoma 81443 Solid adenocarcinoma with mucin production 82303 MANEC mixed adenoneuroendocrine carcinoma 82443 Adenocarcinoma, bronchiolo-alveolar (BAC), bronchiolar carcinoma, (incl pathologic in situ-variant) 82503 Alveolar adenocarcinoma 82513 Bronchio-alveolar carcinoma 82523 Adenocarcinoma in situ, mucinous 82532 Adenocarcinoma, mucinous bronchiolo-alveolar (BAC) 82533 Bronchio-alveolar carcinoma, mixed mucinous and non-mucinous 82543 Adenocarcinoma, mixed with other types of carcinoma incl. squamous cell and small-cell carcinoma 82553 Minimally invasive adenocarcinoma, nonmucinous 82563 Minimally invasive adenocarcinoma, mucinous 82573 Papillary adenocarcinoma, NOS 82603 Micropapillary adenocarcinoma 82653 Clear cell adenocarcinoma 83103 Fetal adenocarcinoma 83333 Mucinous cystadenocarcinoma 84703 Mucinous adenocarcinoma 84803 Mucin-producing adenocarcinoma 84813 Signet ring cell carcinoma 84903 Acinar cell carcinoma 85503 Acinar adenocarcinoma 85513
Squamous-cell carcinoma	Papillary squamous cell carcinoma 80523 Keratinizing squamous cell carcinoma 80713 Non-keratinizing squamous cell carcinoma 80723 Squamous cell carcinoma, small cell nonkeratinizing 80733 Squamous cell carcinoma, spindle cell 80743

	Basaloid squamous cell carcinoma 80833 Squamous cell carcinoma, clear cell type 80843
NSCLC NOS	Carcinoma, NOS 80103 Carcinoma, undifferentiated NOS 80203 Carcinoma, anaplastic NOS 80213 Carcinoma, non-small cell unspecified 80463 Large cell carcinoma with rhabdoid phenotype 80143 Sarcomatoid carcinoma, pleomorphic 80223 NUT carcinoma 80233 Spindle cell and giant cell carcinoma 80303 Giant cell carcinoma 80313 Spindle cell carcinoma, NOS 80323 Pseudosarcomatous carcinoma 80333 Basaloid carcinoma 81233 Adenocystic carcinoma 82003 Mucoepidermoid carcinoma 84303 Adenosquamous carcinoma 85603 Epithelial-myoepithelial carcinoma 85623 Blastoma, pulmonary (pneumoblastoma) 89723 Carcinosarkoma, NOS 89803 Myoepithelial carcinoma 89823
Large cell carcinoma (Non-squamous NSCLC)	Large-cell carcinoma, unspecified 80123