## Additional File Table 1 – Classification of index pathology results as malignant, benign specific, benign non-specific, and non-diagnostic

Positive for Malignancy at Index	Negative for Malignancy at Index		
Malignant	Benign Specific	Benign Non-Specific	Non-Diagnostic
Non-small cell lung cancer Adenocarcinoma Adenocarcinoma in situ Squamous cell carcinoma Large cell carcinoma	Infection / abscess Bacterial Fungal Viral Granuloma	Inflammation Acute/benign inflammation Chronic inflammation Inflammatory tissue Neutrophilic inflammation	Normal lung tissue Bronchial epithelium Hemorrhage Macrophages Blood clots
Large cell neuroendocrine carcinoma  Adenosquamous carcinoma	Granulomatous inflammation  Necrotizing (caseating)	Lymphocytes Organizing pneumonia	Focally anthracotic alveolated pulmonary parenchyma Benign tissue
Sarcomatoid carcinoma  Small cell carcinoma (oat cell cancer) Combined small cell carcinoma  Neuroendocrine carcinoma  Other types of lung tumors Mesothelioma Adenoid cystic carcinoma of the lung Lung sarcomas Lymphomas Germ cell tumors Teratomas	Non-necrotizing Hamartoma Benign metastasizing leiomyoma	Multinucleated giant cell(s) Squamous dysplasia/ metaplasia Radiotherapy changes Asbestos fibrosis Iron pill aspiration Fibroelastic scar Interstitial lung disease Bronchogenic cyst	Reactive bronchial cells Atypical cells <sup>a</sup>
Thymomas and thymic carcinoma Other malignant cells (unable to characterize) Metastatic carcinoma From a hematological origin Solid tumor origin			
Other - deemed malignant based on multidisciplinary review			

<sup>&</sup>lt;sup>a</sup>Insufficient evidence for malignant diagnosis