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55 y/o, Male, lung cancer

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- 55 y/o, Male
- PHx: Lung minimally invasive adenocarcinoma (pTmisN0M0, stage IA) s/p wedge resection for about 1.5 years (2016-03-23), non-contrast chest CT f/u every 3-6 mo with stable condition

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- Intermittent epigastric dull pain & fullness for months, abnormal abdominal sonographic findings at health examination
- 2017-11-30 CT \rightarrow 2017-12-20 MRI







Differential diagnosis

Solitary hepatic nodule with delayed, persistent contrast enhancement

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- Cholangiocarcinoma
- Hepatic metastasis
- Inflammatory pseudotumor

Pathology Sono-guided biopsy: negative for malighancy Focal mild chronic inflammatory cell infiltration in portal tracts and pericentral venous areas Normal expression of Hep-par-1 Negative for cytokeratin • Normal vascular distribution in liver, demonstrated by immunostain for CD34 37

Discussion: Inflammatory pseudotumor of liver

- Heterogeneous group of lesions occurring in liver and bile ducts (among other organs) characterized by fibroblastic and myofibroblastic proliferation with inflammatory infiltrate
- 2 main types that mimic cholangiocarcinoma
 - Large, solitary, peripheral mass, often with hyperdense delayed, persistent contrast enhancement due to fibrous stroma (± retraction of overlying hepatic capsule)
 - Small mass in hepatic hilum appearing identical to Klatskin tumor (short segment stricture with dilation of ducts upstream)





	 Age: may present at any age Gender: male predominance
Airway Lung Orbit Stomach Testis Esophagus Liver	 Epidemiology Most frequently found in lung and orbit Liver and biliary inflammatory pseudotumors are rare
Pancreas Kidney Adrenal gland Retroperitoneum Diaphragm Mesentery Bladder	 More common in Asian population Pathogenesis: unknown Genetic mutation
Heart Thyroid Tonsil Fourth ventricle Spinal cord meninges Central nervous system Maxillary sinus	 Aberrant expression of ALK gene has been identified in > 68% of inflammatory myofibroblastic tumors (IMTs) IMT is considered neoplastic counterpart of inflammatory pseudotumor Autoimmune disease
Nasal cavity Nasopharynx Larynx Trachea	 Linked in some case to other IgG4-related sclerosing diseases (may cause tumor-like masses with vascular and ductal obstruction), such as autoimmune pancreatitis, cholangitis, and kidney, lungs, retroperitoneum, mediastinum, thyroid masses
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	- N	atural His	tory & Pro	onsv is nee	eded for de	finite diaqu	nosis			
		Rapid chai Response • Small les	nge in tum to steroid r ions typically	or size and nedication resolve cor	findings o may be bo npletely	n follow-up th diagnos	imaging	erapeutic		
	•	Excellent presection If aggress	prognosis fo sive or meta	or hepatic static: consi	parenchym der crizotini	al type wit	h no recur	rence after		
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