ALECTINIB HEPATIC-TOLERANCE IN A PATIENT WITH HEPATOTOXICIY BACKGROUND WITH OTHER ANAPLASTIC LYMPHOMA KINASE (ALK)-INHIBITORS

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Background

Anaplastic lymphoma kinase (ALK)-inhibitors are indicated in adult patients with ALK-positive advanced NSCLC, being **crizotinib** indicated as first line. Hepatotoxicity has been described for **crizotinib**[1,2] and **ceritinib**[3].

[1] Van Geel RM, Hendrikx JJ, Vahl JE et al. Crizotinib-induced fatal fulminant liver failure. Lung Cancer 2016; 93:17-19

[2] Sato Y, Fujimoto D, Shibata Y et al. Fulminant Hepatitis Following Crizotinib Administration for ALK-positive Non-small-cell Lung Carcinoma. Jpn J Clin Oncol 2014; 44:872-5.

[3] Product Information ZYKADIA (TM) ceritinib oral capsules. Novartis Pharmaceuticals Corporation, East Hanover, NJ, 2014

Purpose

To describe a case of **alectinib** hepatic-tolerance in a patient with hepatotoxicity background with other ALK-inhibitors

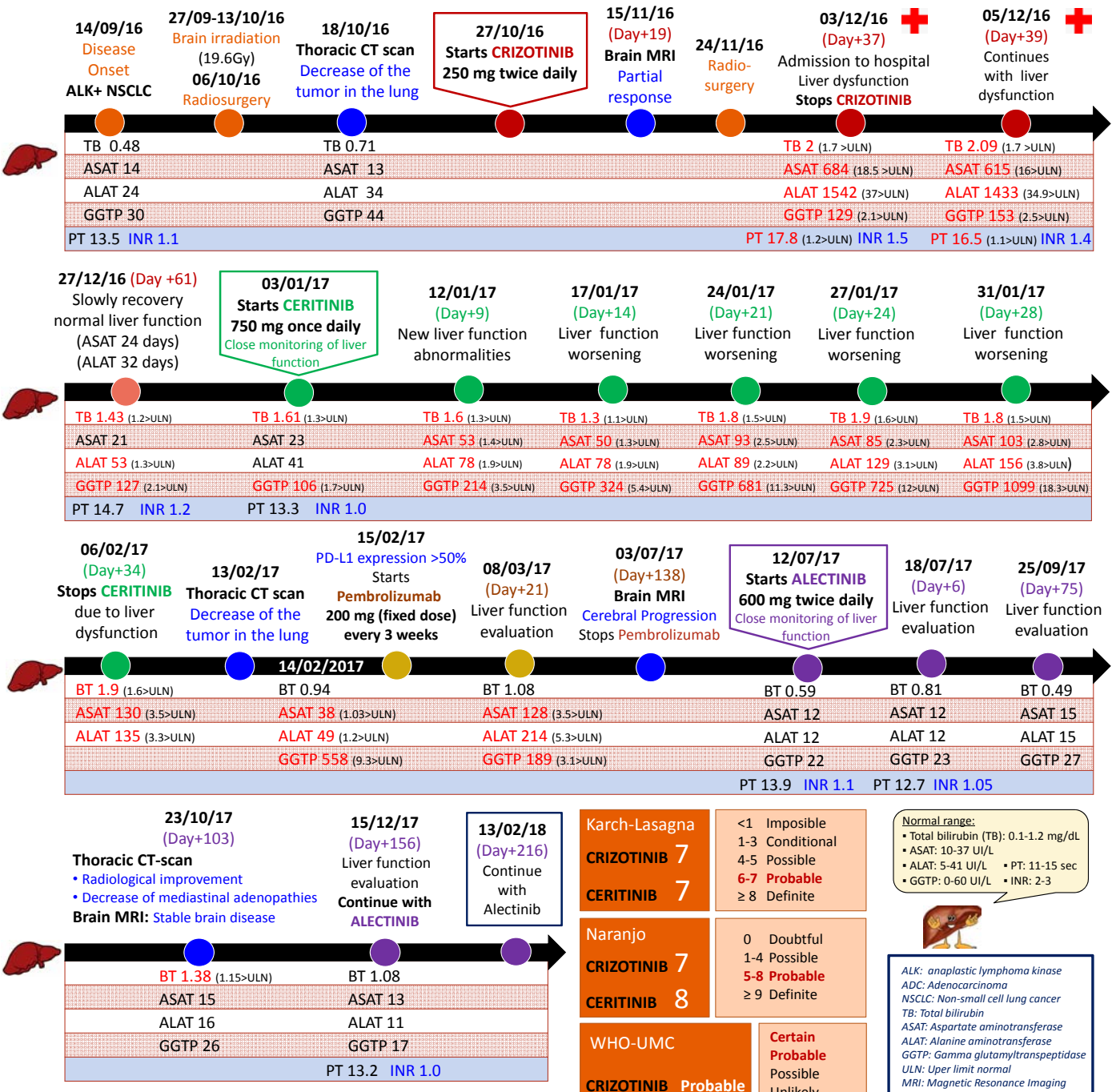
Materials & Methods

✓ The data were obtained by reviewing the electronic medical records

✓ Karch-Lasagna, Naranjo and WHO-UMC algorithms have been used

Results

1. Man
2. 76 years-old
3. **ALK-positive advanced NSCLC.** ADC stage IV (T2aN2M1b)
4. Hypertension
5. Hypercholesterolemia
6. Benign prostatic hyperplasia



Conclusions

- Alectinib may be a therapeutic option in patients with ALK-positive NSCLC who have developed liver toxicity to other ALK-inhibitors. Further follow-up is needed to ratify this statement.
- Karch-Lasagna and Naranjo algorithms established a “probable” relationship between hepatotoxicity and Crizotinib/Ceritinib.
- WHO-UMC algorithm established this relationship as “probable” to crizotinib and “certain” to ceritinib.
- Hepatic toxicity to ALK-inhibitors frequently shows a reversible pattern and transaminases and prothrombine time appear to be the most sensitive markers.