

## Avapritinib (Ayvakit®) Management for Gastrointestinal Stromal Tumor

### Description:

- This PQI will discuss the initiation and management of avapritinib in patients with gastrointestinal stromal tumor (GIST).

### Background<sup>1,2</sup>:

- Avapritinib is a tyrosine kinase inhibitor that targets KIT D816V, platelet-derived growth factor receptor alpha (PDGFRA) and PDGFRA D842 mutants as well as multiple KIT exon 11, 11/17 and 17 mutants
- Avapritinib FDA approved indications include:
  - Treatment of adults with unresectable or metastatic GIST harboring a PDGFRA exon 18 mutation, including PDGFRA D842V mutations
  - See avapritinib prescribing information for other indications
- Adverse reactions occurring  $\geq 20\%$  of GIST patients treated with avapritinib: edema, nausea, fatigue/asthenia, cognitive impairment, vomiting, decreased appetite, diarrhea, increased lacrimation, abdominal pain, constipation, rash, dizziness, and hair color changes

### PQI Process:

- Confirm appropriate diagnosis and verify genetic testing for PDGFRA exon 18 and PDGFRA D842V mutations
- Verify dose – Usual dose 300 mg orally once daily on empty stomach (1hr before/2hr after eating)

**Table 1. Dose Modifications**

First dose reduction	200 mg once daily
Second dose reduction	100 mg once daily
Third dose reduction	Permanently discontinue in patients unable to tolerate 100 mg daily

- Moderate emetogenic potential, consider 5HT3 antagonist prior to avapritinib doses
- Check for drug interactions
  - Avoid avapritinib co-administration with strong or moderate CYP3A inhibitors; If concomitant use is unavoidable, reduce dose of avapritinib to 100 mg once daily
  - Avoid avapritinib administration with strong or moderate CYP3A inducers

**Table 2. Dose Modifications for Specific Adverse Reactions**

Adverse Effect	Grade	Recommendation
Intracranial Hemorrhage	Any Grade	Permanently discontinue
Central Nervous System Effects	Grade 1	Continue avapritinib, reduce dose or hold treatment until improvement to baseline or resolution of symptoms and resume at same/reduced dose
	Grade 2/3	Hold avapritinib until improvement to baseline/Grade 1/resolution Resume at same or reduced dose
	Grade 4	Permanently discontinue
Other adverse reactions	Grade 3/4	Hold until improvement to > Grade 2 Resume at same or reduced dose as clinically appropriate

**Patient-Centered Activities:**

- Provide [Patient Education Sheet](#) for avapritinib
- Counsel patient that medication should be taken on empty stomach
- Do not make up for a missed dose within 8 hours of the next scheduled dose. Do not repeat dose if vomiting occurs after avapritinib but continue with the next scheduled dose
- Counsel patient on potential drug, OTC, dietary, and supplement interactions with avapritinib
  - Coadministration of avapritinib with ethinyl estradiol-containing contraceptives may increase the exposure of ethinyl estradiol, which may lead to increased risk of ethinyl estradiol-associated adverse reactions; see avapritinib PI for more information (section 7.2)
  - Grapefruit or grapefruit juice may interact with avapritinib; patients should avoid eating or drinking this during treatment with avapritinib
- Monitor patient for central nervous side effects such as dizziness, trouble sleeping, changes in mood or behavior as well as any neurological signs and symptoms related with intracranial hemorrhage
  - Report new cognitive changes such as memory loss, forgetfulness and confusion
- Patient Assistance: [NCODA Financial Assistance Tool](#)

**References:**

1. Heinrich MC, Jones RL, von Mehren M, et al. Avapritinib in advanced PDGFRA D842V-mutant gastrointestinal stromal tumour (NAVIGATOR): a multicentre, open-label, phase 1 trial. *Lancet Oncol.* 2020;21(7):935-946. doi:10.1016/S1470-2045(20)30269-2
2. [AYVAKIT® \(avapritinib\) \[prescribing information\]](#).