

Positive Quality Intervention: Avapritinib (Ayvakit®) Management for Gastrointestinal Stromal Tumor

Description: This PQI will discuss the initiation and management of GIST patients receiving avapritinib.

Background: Avapritinib is a tyrosine kinase inhibitor indicated for the treatment of adults with unresectable or metastatic GIST harboring a platelet-derived growth factor receptor alpha (PDGFRA) exon 18 mutation, including PDGFRA D842V mutations. Avapritinib was approved in 2020 and is the first therapy approved for patients with GIST with a PDGFRA exon 18 mutation. The NAVIGATOR trial included patients with a confirmed diagnosis of GIST and received 300 mg or 400 mg orally once daily until disease progression or unacceptable toxicity. Patients starting at 400 mg were later reduced to 300 mg due to toxicity.¹ The primary endpoint was overall response rate (ORR).43 patients who had exon 18 PDGFRA mutations were included in the ORR analysis. For GIST patients with PDGFRA exon 18 mutations, ORR was 84% with complete response in 7% of patients and partial response in 77% of patients. Patients with a PDGFRA D842V mutations had an ORR of 89% (CR 8% and PR 82%; n=38). There were 22 patients with a PDGFRA exon 18 mutation with a duration of response ≥ 6 months (61%) and 20 patients with a PDGFRA D842V mutation with a duration of 20%) were edema, nausea, fatigue/asthenia, cognitive impairment, vomiting, decreased appetite, diarrhea, hair color changes, increased lacrimation, abdominal pain, constipation, rash, and dizziness.²

PQI Process: Upon receiving a prescription for avapritinib²

- Confirm 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)
 - Dose modifications

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

- Moderate emetogenic potential, consider 5HT3 antagonist prior to avapritinib doses
- Check for drug interactions
 - Avoid avapritinib administration with strong or moderate CYP3A inhibitors.
 - If concomitant use is unavoidable, reduce dose of avapritinib to 100 mg once daily
 - o Avoid avapritinib administration with strong or moderate CYP3A inducers
- Dose modifications for specific adverse reactions:

Adverse Effect	Grade	Recommendation
Intracranial Hemorrhage	Any Grade	Permanently discontinue
Central Nervous System	Grade 1	Continue avapritinib, reduce dose or hold treatment until improvement
Effects		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
Thrombocytopenia		Hold avapritinib until resolution (platelet > 50,000/mm ³)
$(platelet < 50,000/mm^3)$		Resume avapritinib at reduced dose
		Consider platelet support if platelet counts do not recover
Other Adverse Reactions	Grade 3/4	Hold until improvement to > Grade 2
		Resume at same or reduced dose as clinically appropriate

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Patient-Centered Activities:

- Provide Oral Chemotherapy Education (OCE) Sheet
- 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 or if vomiting occurs
- Counsel patient on potential drug, OTC, and supplement interactions 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:

- 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 Jul;21(7):935-946.
- 2. <u>AYVAKIT® (avapritinib) [prescribing information].</u>