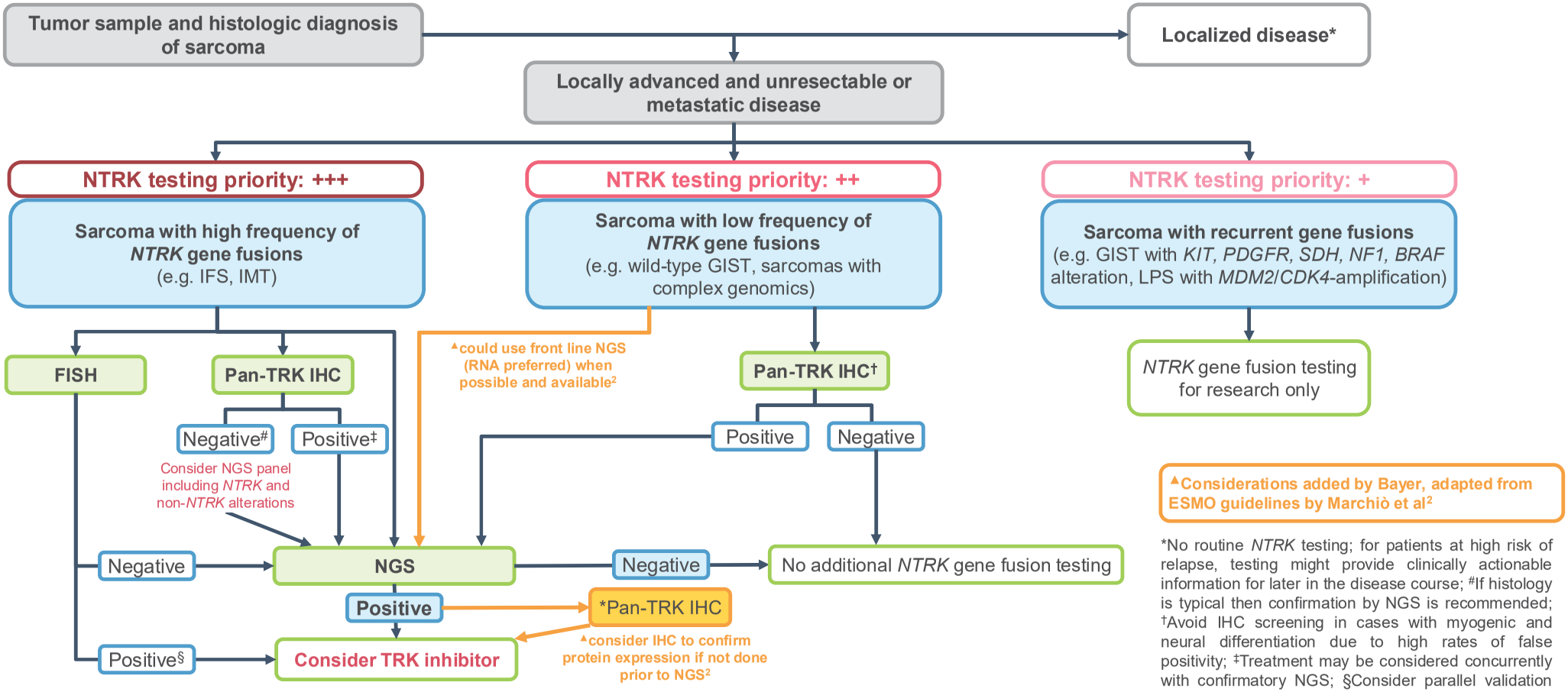
TRK fusion sarcoma

WSN expert recommendations[1]: Algorithm on *NTRK* gene fusion testing



*No routine *NTRK* testing; for patients at high risk of relapse, testing might provide clinically actionable information for later in the disease course; #If histology is typical then confirmation by NGS is recommended; †Avoid IHC screening in cases with myogenic and neural differentiation due to high rates of false positivity; ‡Treatment may be considered concurrently with confirmatory NGS; §Consider parallel validation by NGS or RT-PCR to confirm that fusion is in-frame.

FISH, fluorescence in-situ hybridisation; GIST, gastrointestinal stromal tumor; IFS, infantile fibrosarcoma; IHC, immunohistochemistry; IMT, inflammatory myofibroblastic tumor; LPS, liposarcoma; NGS, next generation sequencing (term used in publication: MPS, massive parallel sequencing); RT-PCR, reverse transcription polymerase chain reaction; WSN, World Sarcoma Network.

1. Demetri GD, et al. *Ann Oncol* 2020;31:1506–1517. 2. Marchiò C, et al. *Ann Oncol* 2019;30:1417-1427.