### SOLID TUMOR TEST MENU

#### General Consultation
- Morphologic Consultation
  - Please provide differential diagnosis and clinical history.
  - Attach additional documents as necessary.
- Cytogenetic chromosome analysis/karyotype
- Targeted Cancer 50 Gene Panel by NGS

#### Colorectal Cancer
- Colorectal Cancer Mutation Panel by NGS (KRAS, BRAF, NRAS, PIK3CA)
- KRAS mutation PCR with reflex to BRAF mutation
  - Individual Tests:
    - KRAS mutation
    - BRAF mutation

#### Lynch Syndrome
- Microsatellite instability (MSI) PCR with reflex to MLH1 promoter methylation PCR with reflex to IHC (TriCore Recommended)
- Microsatellite instability (MSI) PCR with reflex to BRAF mutation / reflex to IHC
- Microsatellite instability (MSI) PCR / reflex to MLH1 promoter methylation PCR
- Microsatellite instability (MSI) PCR with reflex to BRAF mutation
  - Individual Tests:
    - Microsatellite instability (MSI) PCR
    - Mismatch repair protein (MLH1, MSH2, MSH6, PMS2) IHC
    - MLH1 PCR

#### Lung Cancer
- EGFR mutation and ALK (FISH) with reflex to ROS1 (FISH) RET (FISH)
  - Individual Tests:
    - EGFR mutation and ALK (FISH)
  - MET (FISH) (TriCore Recommended)
- EGFR mutation and ALK (FISH) with reflex to ROS1 FISH
- EGFR mutation and ALK (FISH)
  - Individual Tests:
    - EGFR mutation
    - ALK FISH
    - ROS1 FISH
    - MET FISH
    - KRAS mutation
    - BRAF mutation
    - RET FISH
    - MET by IHC

#### Other Solid Tumors
- UroVysion FISH (urothelial cancer)
- EWSR1 rearrangement FISH (Ewing sarcoma, others)