Protocol Title: Communication and Education in Tumor Profiling (COMET): Randomized Study of Pre-Test Genetic Education vs. Usual Care in Tumor Profiling for Advanced Cancer and a Pilot Study of Remote Genetic Counseling for Participants with Potential Germline Mutations Identified on Tumor Profiling

Target Population:
- Advanced Malignant Neoplasm
- Locally Advanced Malignant Neoplasm

Summary: This research trial studies how well pre-test genetic education and remote genetic counseling works in communicating tumor profiling results to patients with advanced cancer. Web-based genetic education before receiving tumor profiling results and remote genetic counseling for patients with potential germline mutations may increase genetic knowledge and reduce distress for patients with advanced cancer.

Key Inclusion Criteria:
- **STEP 1 – PRIMARY INTERVENTION STUDY** (Randomized Controlled Trial [RCT]):
  - Patients must be registered to the first screening step (Step 0) for the National Cancer Institute (NCI)-MATCH trial (EAY131).
  - Patients must speak English and have an adequate ability to view a website (primary intervention study).
- **STEP 2 – SECONDARY GENETIC COUNSELING SUB-STUDY**:
  - Patients must have a potential germline mutation, as determined by the NCI-MATCH tumor profiling assay.
  - Patients must be able to speak English and hear by phone.

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For additional information: [https://clinicaltrials.gov/ct2/show/NCT02823652](https://clinicaltrials.gov/ct2/show/NCT02823652)