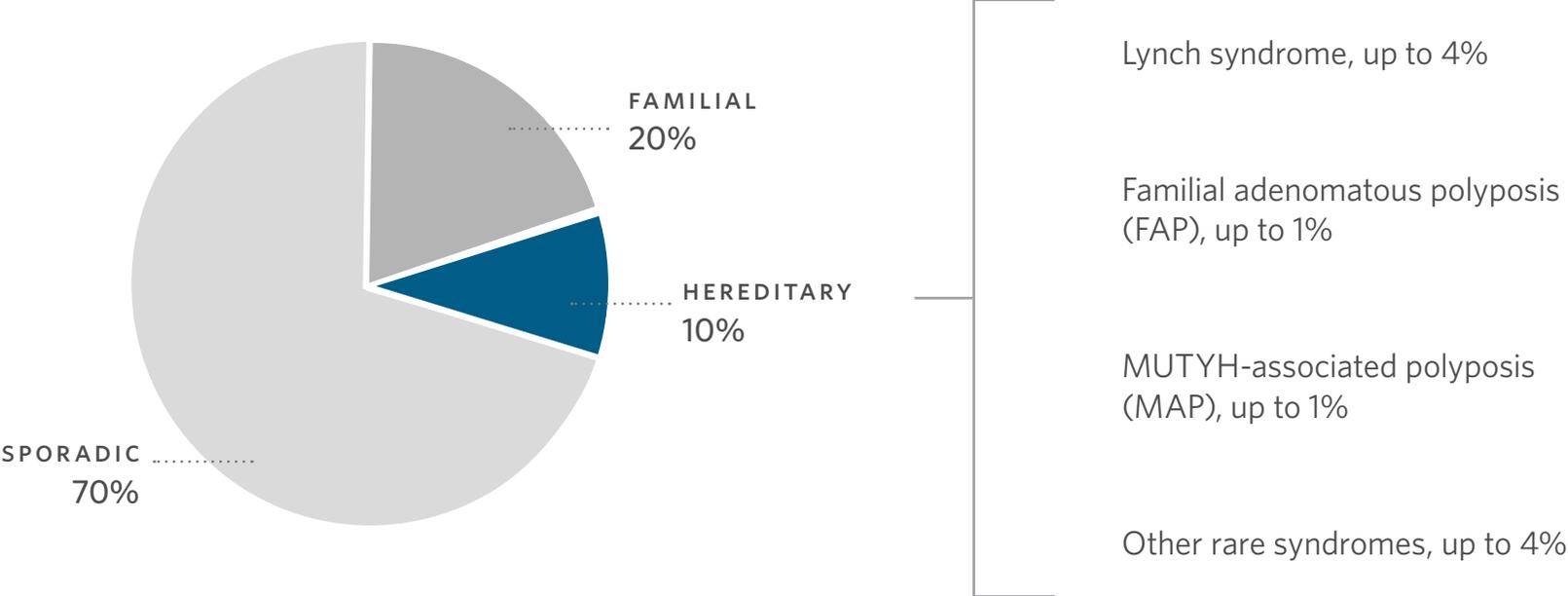


TumorNext-*Lynch*

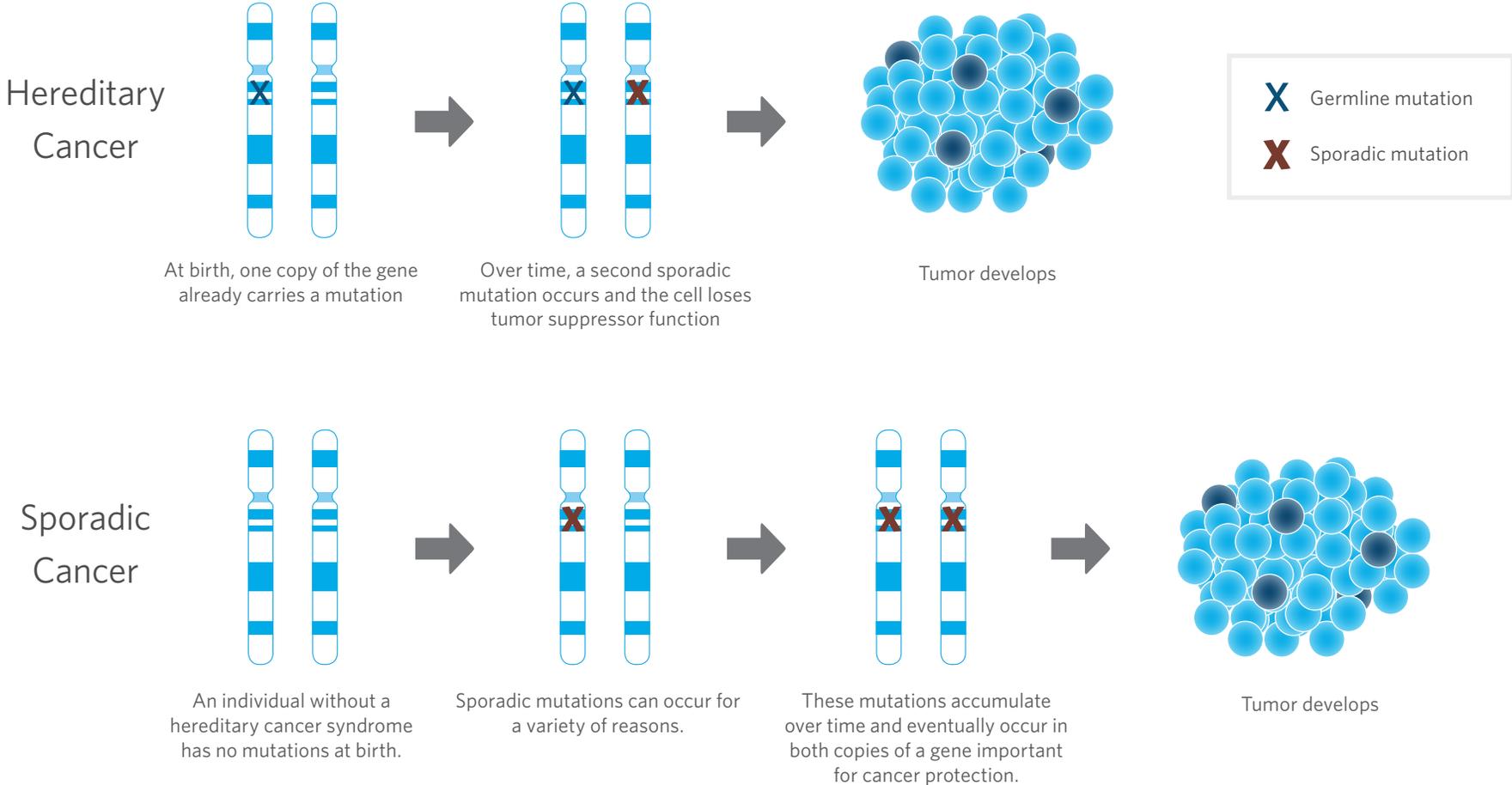
GENETIC TESTING FOR HEREDITARY COLORECTAL OR UTERINE CANCER



What Are the Causes of Hereditary Colorectal Cancer?



What's the Difference Between Sporadic and Hereditary Cancer?



What's the Difference Between Germline and Somatic Mutations?

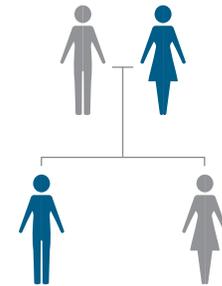
	WHAT IS TESTED?	INHERITANCE	RISKS
INHERITED (GERMLINE)	Blood or saliva Genes that are identical in all cells of your body	Can be inherited and passed on to family members	Linked to an increased risk for other cancer(s)
TUMOR (SOMATIC)	Your tumor tissue for cancer-specific changes	Not inherited and only present in your tumor cells. Cannot be passed to family members	Does not increase your risk for other cancers Can impact your treatment

What is Lynch Syndrome?

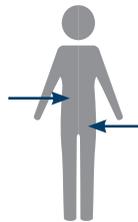


An estimated
1/279 - 1/440
Americans has
Lynch syndrome

Caused by inherited
mutations in a **mismatch
repair (MMR) gene**
(*MLH1*, *MSH2*,
MSH6, *PMS2*) or
EPCAM



Causes **increased
risks** of certain
cancers, including
colorectal and **uterine**.



Identifying patients with Lynch syndrome is
key to **early detection** and **prevention**.



Scheduled
colonoscopy

Universal Screening: Using MSI/IHC to Find Patients with Lynch Syndrome

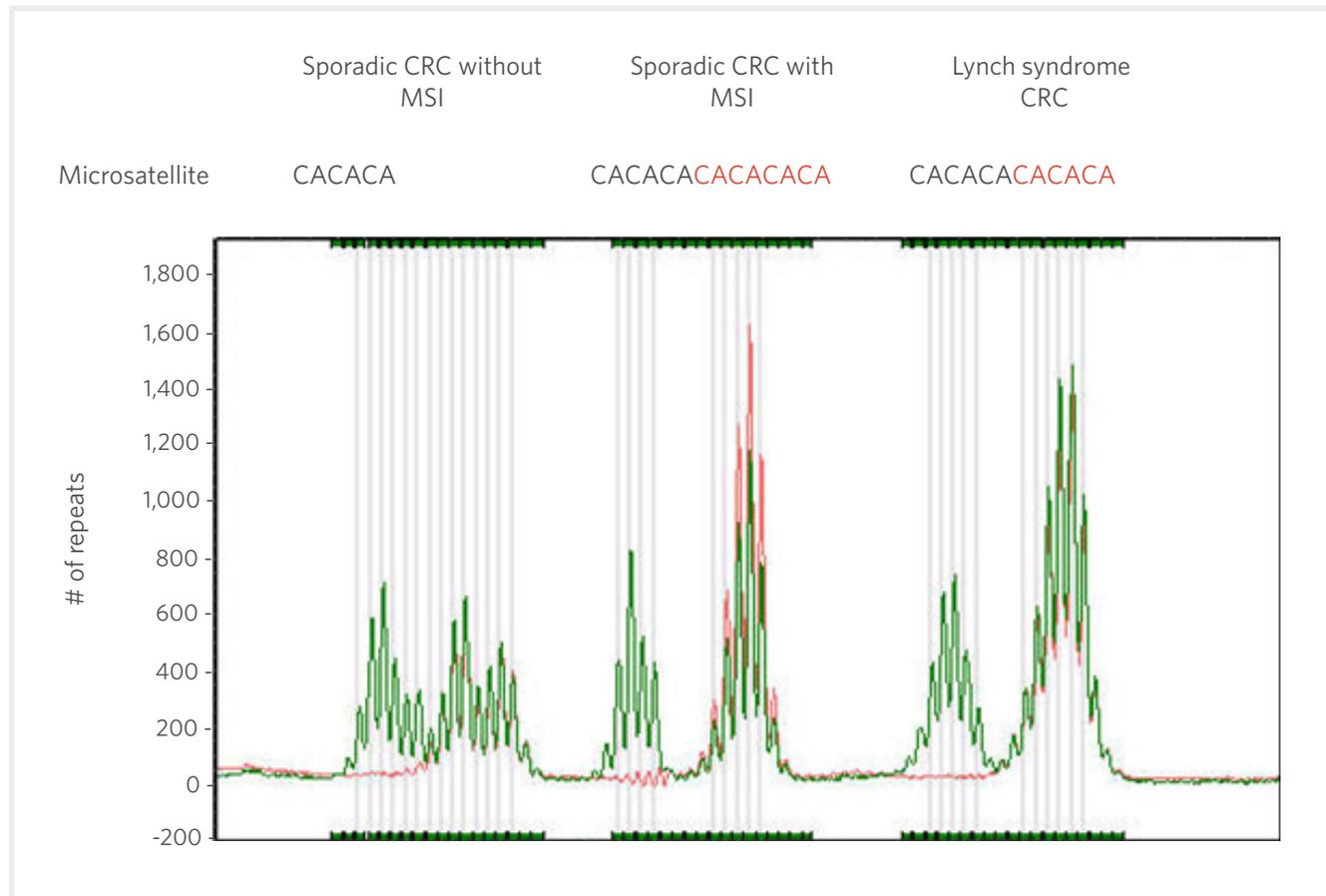
Microsatellite Instability (MSI) Testing

Looks for DNA instability in tumors, which is a feature of Lynch syndrome.

Immunohistochemical (IHC) Analysis

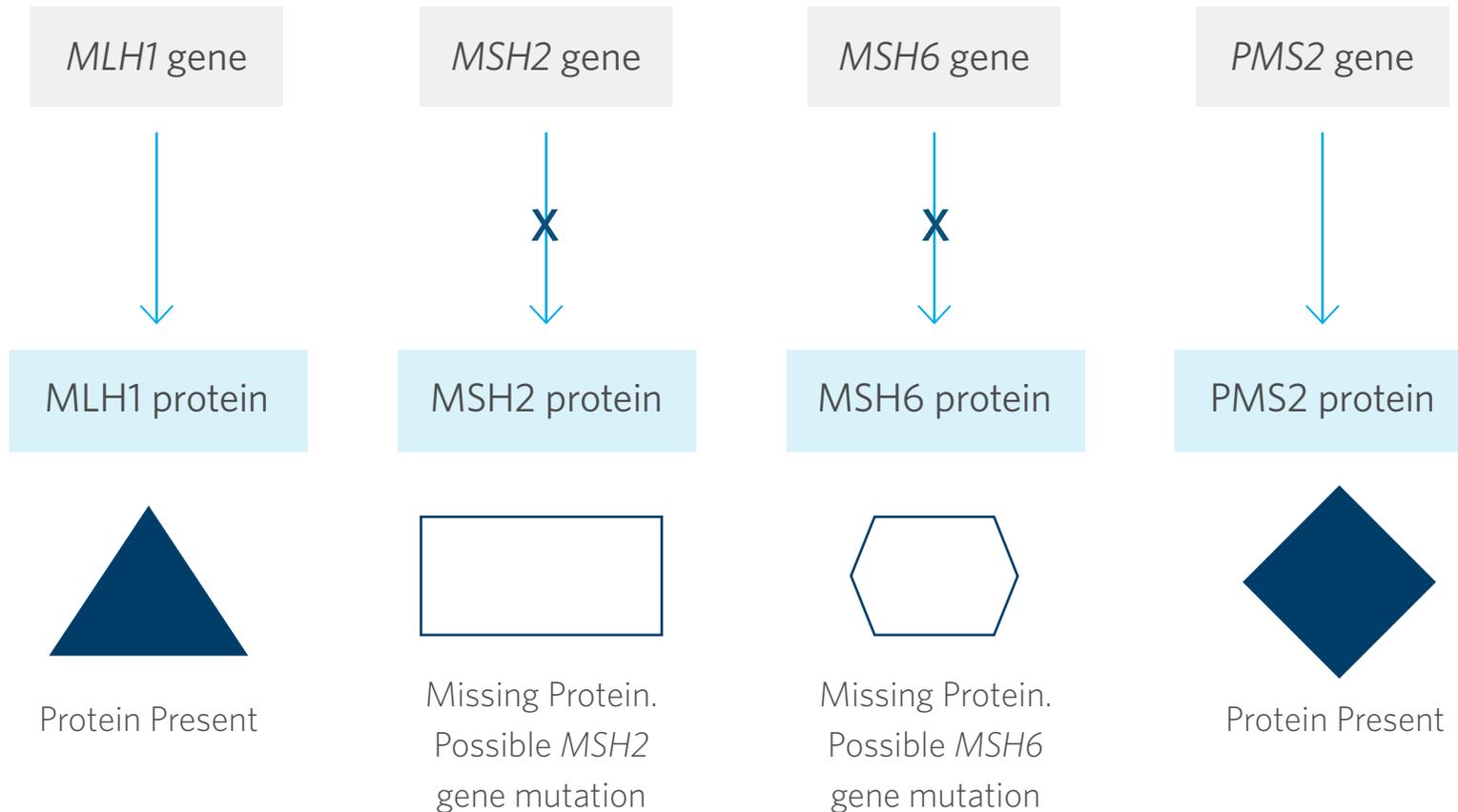
Looks for missing mismatch repair proteins in tumors, which is a sign of Lynch syndrome.

Microsatellite Instability Testing

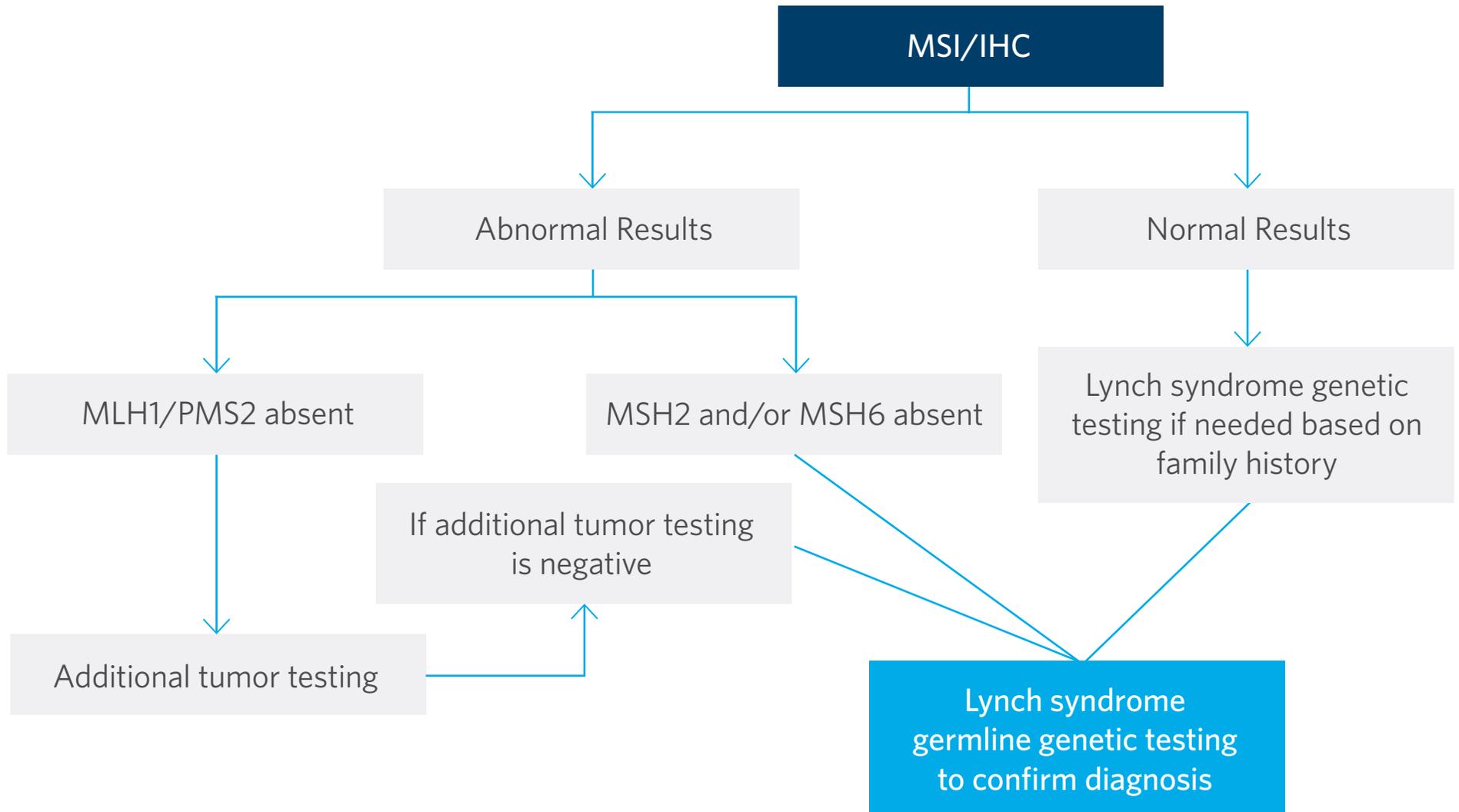


Immunohistochemistry (IHC)

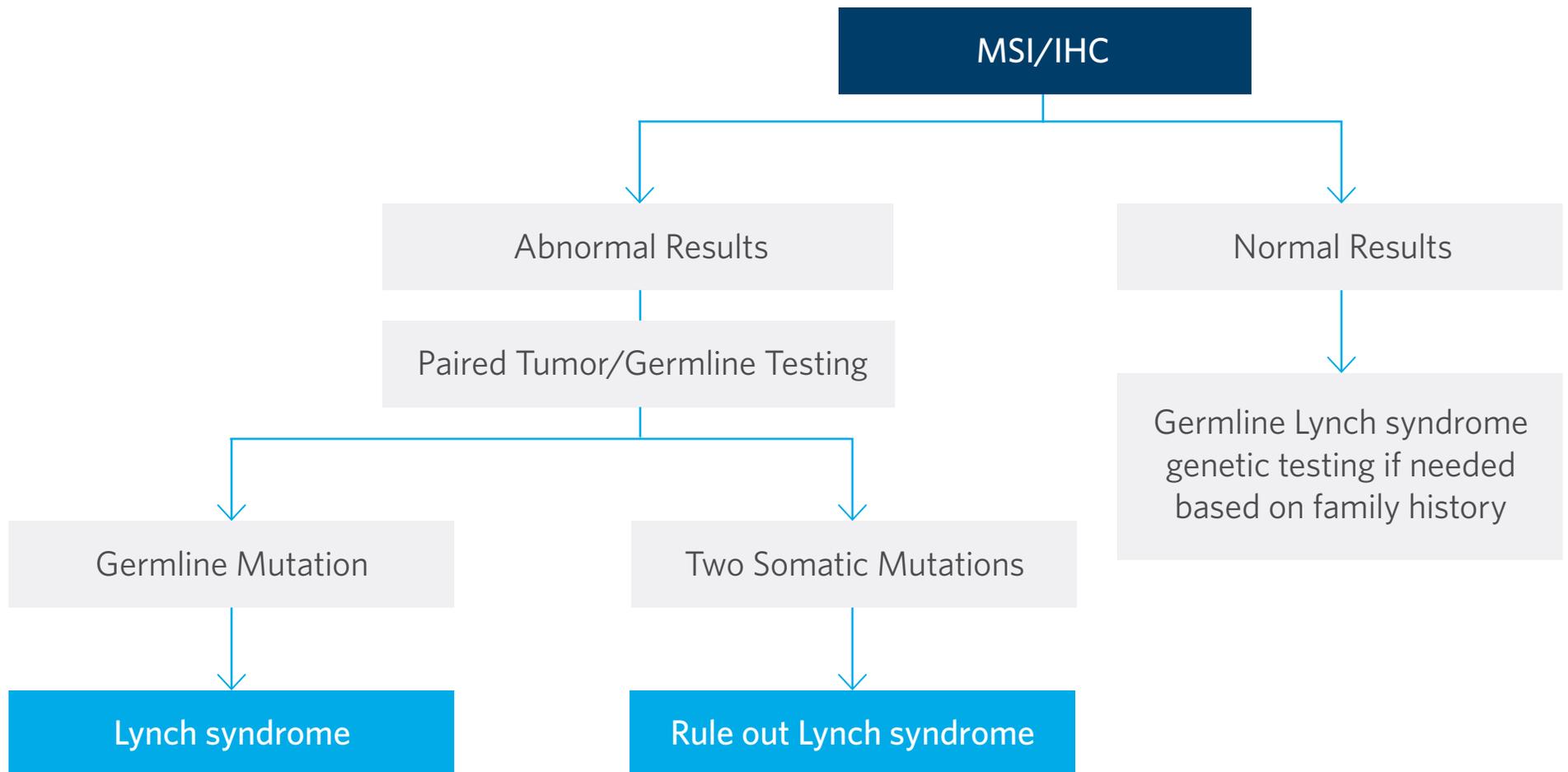
Absence of a Protein Suggests a Mutation in the Corresponding Gene



Historical Universal Screening



Testing with TumorNext-*Lynch*



Possible Results from TumorNext-*Lynch*

GENETIC TEST RESULTS	MEANING	IMPLICATIONS
Germline mutation identified	Diagnosis of Lynch syndrome	Medical management based on cancer risks specific to gene mutation Targeted testing available to at-risk relatives
Two somatic mutations identified	Abnormal screening results explained by changes isolated to tumor	Rules out Lynch syndrome. Cancer risks and management based on personal and family history
No germline mutation and no somatic mutations that explain screening results	Inconclusive result	Cancer risks and management based on personal and family history