## Importance of accurate *EPCAM* deletion characterization to prevent misdiagnosis of Lynch syndrome

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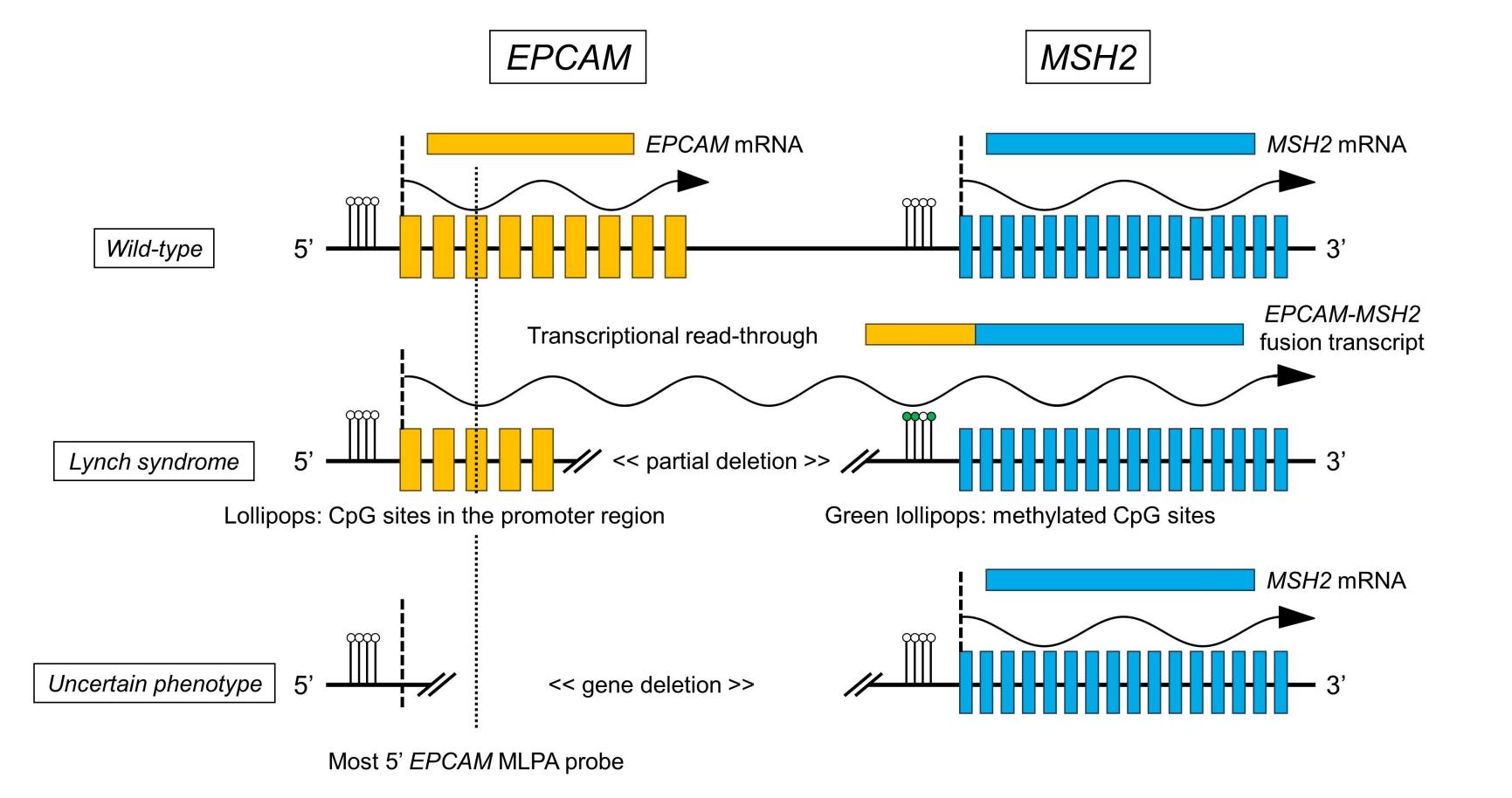
## **BACKGROUND**

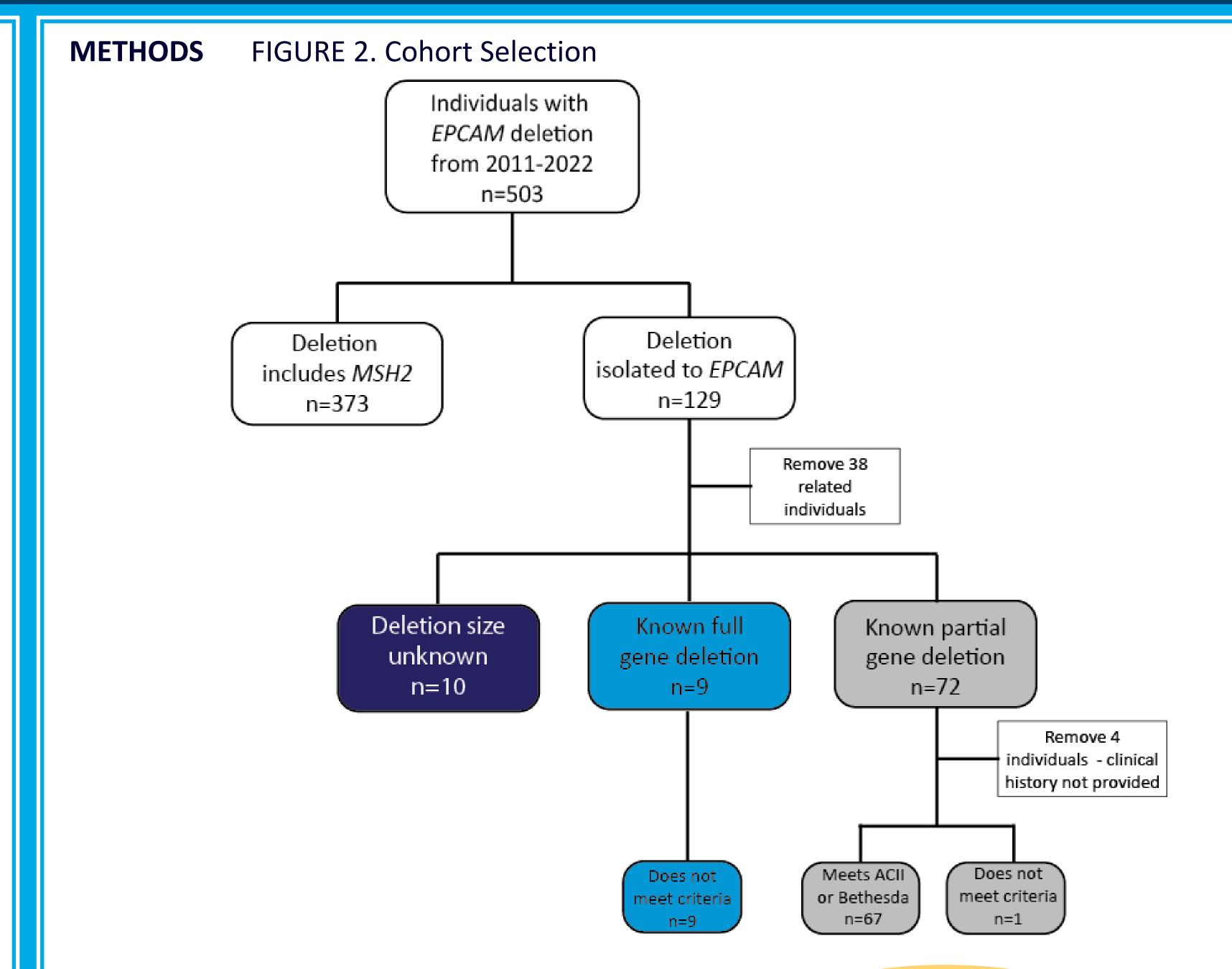
Prior to the introduction of NGS, *EPCAM* deletion screening was typically performed by one MLPA kit throughout the country

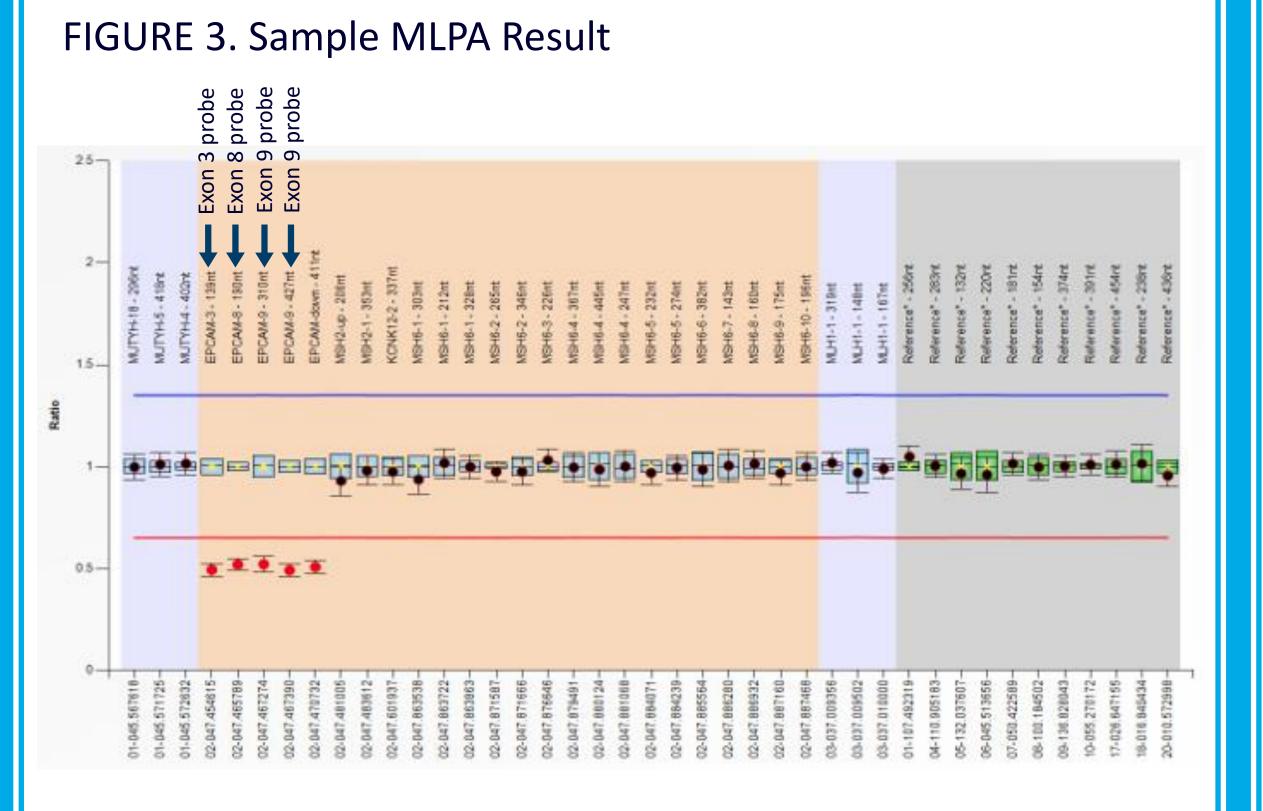
The only MLPA kit available does not have probe coverage 5' of exon 3, making it difficult to determine if a deletion spans the entire gene.

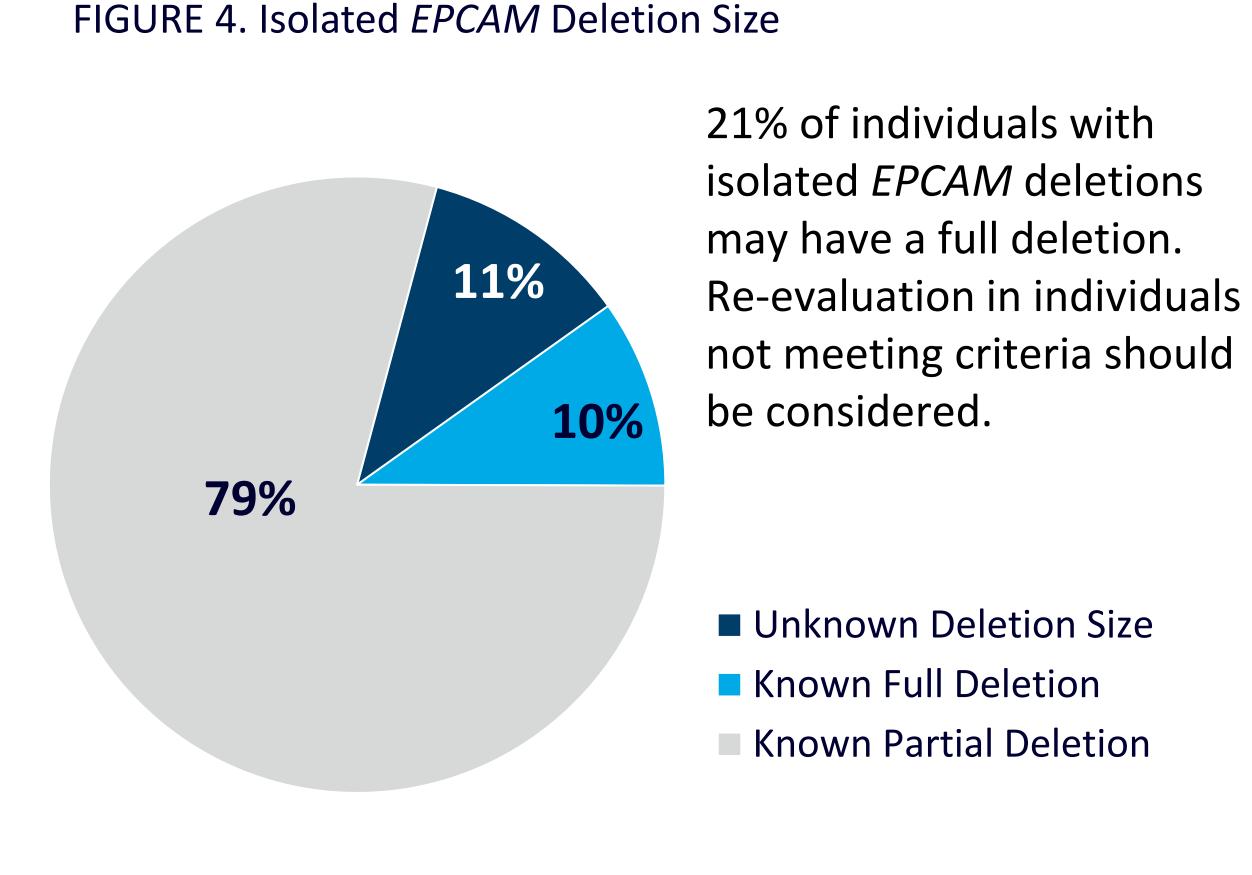
Phenotypes of individuals with isolated whole *EPCAM* deletions are not well described and may have different clinical implications than individuals with partial deletions.

FIGURE 1. EPCAM and MSH2 disease mechanism









## Take Home Points

Isolated whole-gene *EPCAM* deletions do not appear to cause Lynch syndrome.

Some patients with *EPCAM*-associated Lynch syndrome may be misdiagnosed and eligible for re-evaluation.

