

**Question:** How often are MDs updating NGS for patients?

**Answer:** It really varies depending on the setting and the individual.

**Question:** Regarding enrichment of the cells, what is the cIG-FISH?

**Answer:** My understanding of this is cIG-FISH stands for cytoplasmic immunoglobulin (cIg) with FISH. This is used in the context of multiple myeloma or other plasma cell conditions that are hard to identify using FISH alone. So it allows for the ability to identify the plasma cells through immunostaining.

<https://pubmed.ncbi.nlm.nih.gov/22658896/>

**Question:** Can you explain what exactly the probes you referred to are?

**Answer:** DNA probes are basically mapped to either a particular region of a chromosome or a particular region within a gene. Essentially, they're targeting specific regions, areas, genes, or individual pieces of DNA. They can be developed in many different ways.

**Polling Questions:**

**Question:** *What is the most common chromosomal abnormality in cancer?*

**Answer:** *Aneuploidy*

**Question:** *What is the metaphase?*

**Answer:** *Metaphase chromosomes are used in karyotyping; the nucleus dissolves and the cell's chromosomes condense and move together, aligning in the center of the dividing cell; chromosomes are distinguishable when viewed through a microscope.*

**Question:** *What is the advantage of using FISH?*

**Answer:** *Can be performed on tissue blocks; is useful for identifying small genetic changes such as insertions or deletions of base pairs; targeted and highly specific.*