pal Health Brief

uid Biopsy – Clinical Uses and Implica

er is one of the leading causes of death globally, accounting f . New cancer cases are expected to increase by approximatel

cer also has massive global financial implications. The total impa 208 (the latest year for which figures are available) was USD 895 nestic product (GDP) that year. Its burden on health and finances of active management, as there is a higher probability of cure if the d

searchers have long been exploring alternate ways to screen for a cent years is liquid biopsy; i.e., the testing of blood or other bodily flu

nis is not a new concept. Circulating protein tumor markers such as capecific antigen (PSA) have been used for years to screen for cancers, nany cancers do not have a reliable protein biomarker, and even for the oreasons unrelated to tumor growth.

Also, traditional diagnostic techniques such as tissue biopsy or imaging s purposes; rather, they are recommended only if the patient shows symptodisease might already be well-established.

Recent advances are making it possible to test blood or other bodily fluids such as circulating tumor cells (CTCs) and circulating tumor DNA (ctDNA). A clinical practice, insurance professionals must understand them and their us

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About liquid biopsies

A liquid biopsy is a test that detects the presence of tumor products circulating in bodily fluids (e.g., blood, urine, saliva, cerebrospinal fluid, etc.). These tumor products can include:

- Circulating tumor cells (CTCs): Cancer cells which have been shed from a tumor and are present in bodily fluids
- 2. Circulating tumor DNA (ctDNA): Strands of single- or double-stranded DNA released by cancer tumor cells into the blood.
- 3. Circulating transcriptome: Coding and non-coding RNA molecules in bodily fluids
- 4. Exosomes: e



could lead to higher cancer incidence rates than anticipated. This could impact the pricing assumptions of certain products, especially those o ering early-stage

