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PERCUTANEOUS TISSUE ACQUISITION UNDER RADIOLOGICAL GUIDANCE IN DELICATE AREAS FOR PRECISION MEDICINE

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Precision medicine has gained wide attention in various disciplines such as oncology. Selection of drugs and patients is imperative to cope with increasing complexity and costs of new systemic treatments. Almost all these advances are based on molecular biology of the target lesion. High quality tissues meaning enough, pure and fresh are prerequisite for these expensive and complex medical innovations. Often, the biopsy step is the bottleneck because of concerns for patient discomfort, morbidity/mortality, and poor tissue quality. While surgery is expensive and cumbersome, tru-cut technologies are inappropriate also because of the relatively small size and the heterogeneity of samples. New macrobiopsy technology can provide samples with sufficient quality in a comfortable out-patient setting. Recently, new progress has been made for biopsy in the most delicate areas of the human body. This study collected cases of patients that were seen in six clinical departments on admission for lesions that were inaccessible for other percutaneous tissue acquisition methods in areas such as head and neck, thorax, liver, intra-abdominal, retroperitoneal, and intrapelvic sites. The biopsy was taken by Spirotome of sizes between 14 and 8 G. The procedure was considered successful if the patient had no side effects and the size of the sample was sufficient for all prospected histological and biomolecular tests. The end-point of this non-randomized study was to detect locations where a macrobiopsy could not be taken. For all areas, considered to be delicate for tissue acquisition, at least one successful procedure was possible. In almost all cases, the procedure could be considered successful. Tips and tricks will be presented. With the appropriate tools for imaging and biopsy, high quality tissue samples can be obtained from all body parts, even the most delicate, providing access to precision medicine for every patient.

Biography

Igor Smit after finishing Medical School at the highly rated Erasmus University, Rotterdam, has gained clinical experience for a number of years in ER and Surgery. He, by specializing in Radiology at Elisabeth Hospital Tilburg, a renowned centre for Interventional Radiology and again Erasmus, non-vascular intervention became his passion. Currently, he is working in Super Regional Colorectal Centre, he has specialized in Deep Biopsies, especially Retroperitoneal and Pelvic. Recently, he was asked to share his experience and knowledge of deep biopsies in South America to improve nonsurgical high quality tissue acquisition.

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