

IndiTreat®



Patient brochure

Kontakt

2cureX AB
Fruebjergvej 3, 2100 Copenhagen

Tel.: +45 22115399 | **E-mail:** info@2curex.com

www.2cureX.com

2curex

- because patients are individuals

Challenges in cancer treatment

The choice of medical therapy of solid tumors is based on results from large clinical trials. However, the efficacy of a certain drug is not the same in each patient. Some patients are highly sensitive to a drug while others are resistant. The exact cause of these different responses is unknown. It is commonly assumed that resistance is related to the structure and cellular composition of the individual tumor. With the IndiTreat® test it is possible to predict before treatment how well the tumor of an individual patient will respond to various drugs and their combinations and which will have no effect.

The IndiTreat® test

The cell based, functional IndiTreat® method was developed initially for colorectal carcinoma (colonic cancer) and assists the doctor in choosing the most effective medical therapy for the patient. In order to perform the IndiTreat® test a small tissue sample is taken from the tumor. This tissue sample containing living tumor cells is placed in a 2cureX transport container and shipped within 24 hours by courier to the nearest 2cureX laboratory. From the tumor tissue three-dimensional microtumors consisting of approximately 300 cells are produced. In our own studies and numerous scientific publications, it has been shown that this method preserves the microenvironment of the tumor. In other words, the structural composition and the specific characteristics of the primary tumor are maintained. Then, during a week, the growth of the microtumors is observed in the presence and absence of several drugs. The 3D microtumors are considered sensitive or resistant to each drug depending of if their growth is inhibited or not. Clinical studies have documented that the response of the microtumors to the drug treatment is comparable to the response of the patient's tumor. By means of pre-therapeutic identification of an effective medical therapy against an individual patient's tumor, ineffective treatment and accompanying can be avoided.

Differentiation IndiTreat® to DNA tests

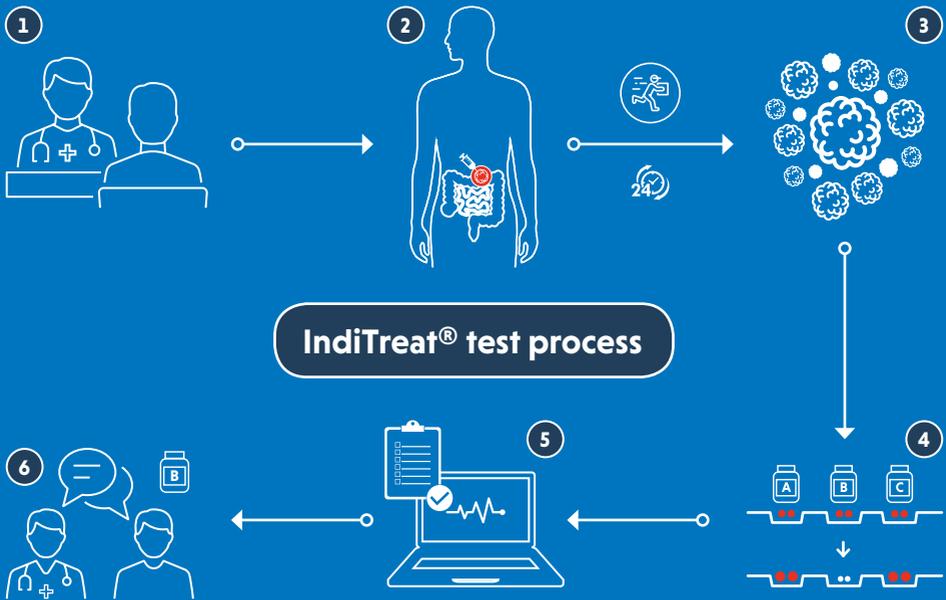
There are several approaches to evaluate a cancer patient's response to medical therapy. In up to 10% of patients a gene mutation in a tumor allowing for an appropriated (targeted) medical therapy may be identified. On the other hand, the clinical response to many anticancer drugs are not related to a mutation. Finally, mutational analyses only allow for response prediction to single drugs and not combination therapy which is often used in daily practice. In contrast, the IndiTreat® test is independent of mutations and instead the response to single drugs or combinations of drugs is directly measured.

About 2cureX

The IndiTreat® test has been used since 2006 on tumor samples from more than 1000 patients. 2cureX AB is based in Copenhagen, Denmark and has developed the IndiTreat® test in close cooperation with several cancer centers. In 2015 a German subsidiary was established in Hamburg (2cureX GmbH).

Payment IndiTreat®

Reimbursement of drugs differs from country to country. In general, the costs incurred in the context of established cancer therapy are paid by the general health insurance of patients. At the moment, IndiTreat® is not a general established hospital service and will not yet be compensated by the national health insurance. For more information regarding the availability of IndiTreat in your area please consult your physician or contact 2cureX.



1. Agreement

The doctor informs the patient about the benefits and risks of the in vitro cancer test IndiTreat®. When agreement to perform the IndiTreat® test is achieved, the Test-Order form will be signed.

2. Tissue sampling and shipping

A tumor sample is collected from a resected specimen or during a biopsy typically from the liver. The tumor tissue is placed in a special medium to keep the tumor cells alive and transported in a dedicated 2cureX transport box to a nearby 2cureX lab within 24 hours.

3. Processing the tumor sample

In the first part of the IndiTreat® test, the 2cureX lab creates hundreds to thousands of 3D microtumors from the collected tumor tissue. Subsequently, the microtumors are grown in tubes of the 2cureX laboratory.

4. Conducting IndiTreat® test

After some days of uninhibited growth, the 3D microtumors are treated with a panel of different cancer drugs or drug combinations in order to measure growth inhibition or disintegration (death) of the microtumors.

5. Evaluation and reporting

The response of microtumors to the different drugs is classified as drug sensitive or drug resistant. A IndiTreat test report is send to the doctor.

6. Individualized therapy choice

Based on the IndiTreat® result and after consideration of all available information on the patient, the doctor decides which treatment she/he will recommend the patient.

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Info@2curex.com
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 **Twitter:** @2cureX

 **LinkedIn:** 2cureX