

BEST for PM

Biomarkers Evaluation & Supervision Team
for Personalized Medicine



What is Precision Medicine?

Precision medicine is an evolving approach to effective treatment, that use knowledge of specific pathogenesis for each individual patient, in order to propose more precise target therapy. This is very important in cancer care where abnormal genes present in tumour cells. Clinicians at cancer centers have now access to specialized genetic and molecular tests for each patient that makes it possible to identify the most important mutations. The results of these tests can aid us in selecting specific therapeutic agents to precisely treat each individual's cancer (personalized treatment).



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Why personalized treatment is essential?

Genetic profile of cancer cells for each individual patient helps physicians to diagnose the subtype of a patient's cancer, predict its behavior, and helps to check tumor response (or resistance) to each specific drug before administration to the patient.

In essence, we can recommend a medication that specifically attacks any altered gene and as consequence an effective treatment however less severe side effect can be expected.

The genotyping has also led us to find inherited genes in family members of cancer patients for prediction and prevention strategies.



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Cancers can also run in families,

These are known as familial cancer syndromes. If cancer occurs more frequently in close family members it could be caused by germline mutations in the DNA of parental sperm or eggs that passed on to offspring, and then cells carry the mutation. Most of them are tumor suppressor genes which every cell in the body has one dysfunctional copy (either due to a mutation or a deletion); whenever a normal copy gets altered by a new mutation later in life (either due to an environmental exposure or a random mutation) then a cancer can grow. For this reason, patients with such syndromes often have cancers in more than one organ at multiple times in their lives.

Main aim and mantra of personalized medicine:

«The right dose of the right drug, for the right patient, at the right time»

Different patients may be diagnosed with what appears to be the same type of cancer (e.g., lung cancer), but the exact genetic makeup of the tumor varies from patient to patient. Accordingly, each tumor affects the individualized response to drug and treatment.

Implementation of personalized medicine for the first time in Iran

Annually 90000 new cases of cancer and 55000 cancer related deaths are recorded in Iran. Unfortunately mortality to incidence ratio in Iran is two times higher than

developed countries.



Implementation of personalized medicine can alleviate this ratio in Iran. Gladly the first personalized medicine clinic have been established in Imam-Khomeini Hospital Complex of Tehran University of Medical Sciences by BESTforPM.

Who we are?

A team of multi-disciplinary experts known as «BESTforPM Biomarker Evaluation and Supervision Team for Personalized Medicine» in the field of medical oncology, radiation oncology, surgery, pathology, genetics, radiology, clinical pharmacy, molecular imaging, cancer biology, bioinformatics and medical physics in the Imam Khomeini Hospital complex have established and launched this center.

What can we do?

we provide the genetic profiling of solid tumor samples by sequencing hundreds of predefined genes for various common cancers (for example 60 genes in breast cancer, as defined below).



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- All these tests are combined with validated double checked IHC and cytogenetic tests to detect important proteins as well. - The NGS results are analyzed and interpreted using the latest and advanced international databases by expert bio-informaticians, geneticist, and pathologists in order to assess the response to any specific chemotherapy, target therapy, molecular antibody agents or imonotherapy.

- All of these information is linked and reviewed in a molecular tumor board in order to advise an approved targeted therapy with the most economical effective solutions.



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Protocol
Detail:
CANCER
TYPE:
Solid
Tumor
SAMPLE
TYPE:
FFPE
RESULTS:
< 3 weeks

How does the protocol perform?

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Who does it
work?

ordering

collecting

Processing

interpretation

Support

Ordering: Ordering a solution is very simple: Just log in to the BEST for PM website and select your solution(s). Then fill out our online form or contact us.

Collecting; we arrange to Collect the tumor sample(s) or you can send it to us

Processing; Samples are received and checked by the logistics department and then processed by the Institute of Pathology and Genetics (IPG). All management lab tests (QC, NGS, IHC, etc.) are performed.

Interpretation; After interpretation by our experts, an interactive report will be available for you. You can present it back at our molecular tumor board.



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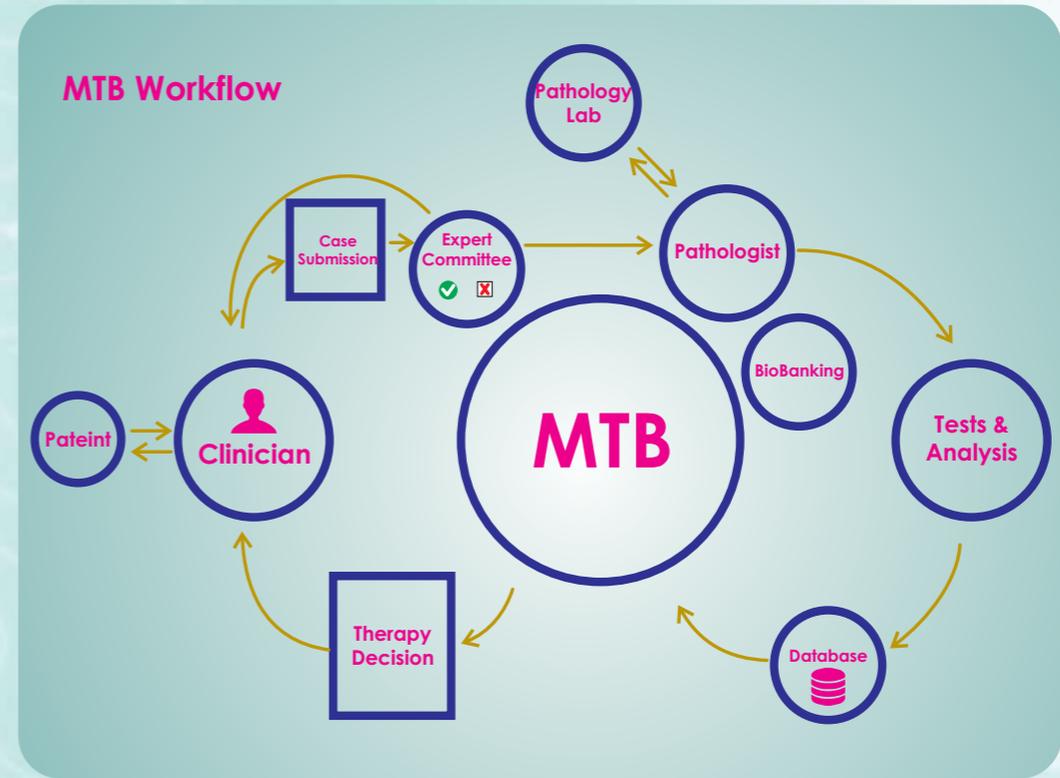


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Support; Support is available at all times, for patients through our Patient Care department and for oncologists via our scientific team.

Molecular tumor board (MTB):

The molecular tumor board (MTB) met weekly with date and time announcement. Regular attendees consist of medical oncologists, surgical oncologists, radiation oncologists, surgical pathologists, molecular pathologists, and genetic counselors, Bioinformatician, clinical pharmacist, radiologist, cancer biologist, clinical immunologist, and of course the patient referred clinician.



Who benefits? Currently, 5 service packages are provided as follow:

- Patient resistant to first line treatment
- Patient with neoplasm of unknown primary or Mixed histology or Rare pathology
- Patient with Recurrence after Treatment or end stage patients
- Patient with strong family history of cancer or with hereditary syndromes
- Family member of patient with inherited cancer

How to find us:

BESTforPM center located at : Room # 8, Sadaf Building of the Cancer Institute. Imam Khomeini Hospital Complex,

Tehran, Iran

Tel: Mobile: 09909526140

Web site: Best4pm.com

email: contact@best4pm.com

Thank you for your interest and support Precision Medicine at BEST 4 PM center of Cancer Institute.

We are committed to providing complete and comprehensive care for your patients.

To refer your patient, please use our patient referral form or arrange through our website, or call us on 09909526140

To schedule a consultation with one of our expert committee member in any speciality, please call or send a message to 09909526140, or complete an online advice form.



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انتهای بلوار کشاورز، درب شرقی بیمارستان امام خمینی (ره) ساختمان صدف،

تلفن: ۰۹۹۰۹۵۲۶۱۴۰

درمانگاه های انسیتوکانسر، اتاق ۸