

chemo-scale

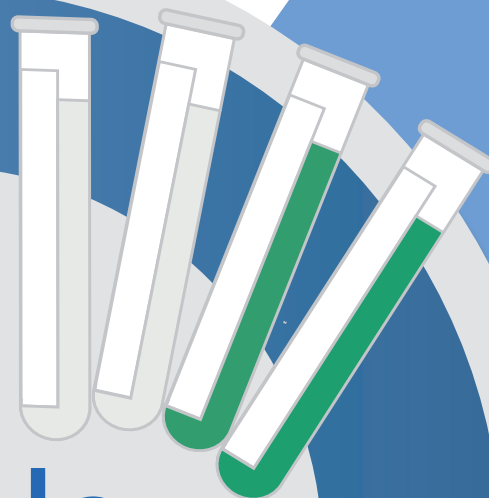
Cancer  Hope
אונקולוגיה מותאמת אישית

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Blood-based chemosensitivity testing



chemo-scale

EFFICACY AND RESISTANCE GUIDANCE FOR CHEMOTHERAPY

DATAR CANCER GENETICS
UNITED KINGDOM | GERMANY | INDIA

About chemo-scale

Chemotherapies are still the foundation of cancer treatment. Their use is often associated with significant side effects. The effectiveness of the respective therapy can often only be assessed after several cycles of therapy, e.g. if the tumour shrinks during therapy (so-called neoadjuvant situation).

With chemo-scale, it is possible to determine the effectiveness of the drugs or resistance mechanisms in advance using a blood sample. Insights into the characteristics of the tumour can thus be gained even before the start of therapy.

Datar Cancer Genetics has proven the clinical relevance of chemo-scale with trials comprising more than 5.000 patients.

Faster access to the most effective, individually optimised chemotherapy through functional CTC analysis.

With chemo-scale analysis, we minimise the risks of therapy failure for the patient - saving money, reducing 'trial and error' and most importantly, intensifying the attack on the patient's cancer, not the patient. In addition, the patient benefits from treatments that are not only **more effective**, but also have **fewer side effects**.

- chemo-scale directly tests the **effect of chemotherapy / anti-cancer drugs** on the patient's tumour cells. This facilitates the adaptation of the treatment plan to the sensitivity and resistance patterns of the tumour cells.
- chemo-scale is performed on circulating tumour associated cells (C-TACs) isolated from peripheral blood. A control analysis is included.
- chemo-scale does not aim to replicate the entire tumour process in the laboratory, but rather provides a quick assessment of **which treatment options are highly effective and which are ineffective**.
- By analysing the chemoresistance profile of C-TACs and tumour tissue derived cells of the same patient, we observed a concordance of 93.7%.

chemo-scale is particularly recommended for cancer patients ...



... for whom several types of chemotherapy are possible.



... who are newly diagnosed with a solid tumour such as stomach, pancreas, breast etc.



... where cancer has relapsed.

chemo-scale analysis reveals

- chemo-scale is unique in its methodology and has extensive clinical evidence.
- chemo-scale reveals cytotoxic chemotherapy drug efficacy.
- The medical findings list the recommended medications in order of effectiveness.
- Analysis is carried out for single drugs in a fixed panel and - on request - for complementary drugs.

Please note:
Tested
drugs may
change due
to availability
of the given
substances.

Substances tested		
No.	Medications	Natural Substances
1	Bleomycin	Acetylsalicylic Acid
2	Cabazitaxel	Artesunate
3	Carboplatin	Atorvastatin
4	Cisplatin	Bromelain
5	Cyclophosphamide	Calcitriol
6	Dacarbazine	Cannabidiol
7	Dactinomycin	Celecoxib
8	Docetaxel	Chloroquine
9	Doxorubicin	Curcumin
10	Epirubicin	Dichloroacetate (DCA)
11	Eribulin	Diflunisal
12	Etoposide	Dihydroberberine
13	Gemcitabine	DMSO
14	Ifosfamide	Doxycycline
15	Irinotecan	Epigallocatechin Gallate (EGCG)
16	Melphalan	Fenbendazole
17	Methotrexate	Genistein
18	Mitomycin	Glibenclamide
19	Mitoxantrone	Helixor-A
20	Oxaliplatin	Helixor-M
21	Paclitaxel	Helixor-P
22	Pemetrexed	Hydroxy-Itraconazole
23	Temozolomide	Indol-3-Carbinol
24	Topotecan	Iscador P
25	Trabectedin	Iscador Qu
26	Vinblastine	Ivermectin
27	Vincristine	Mebendazole
28	Vinorelbine	Melatonin
29	5-Fluorouracil/ Capecitabine	Metformin
30		Niclosamide
31		Pantoprazole
32		Propranolol
33		Quercetin
34		Resveratrol
35		Salinomycin
36		Valproic Acid
37		Vitamin C

FAQs



What is chemo-scale?

chemo-scale is a functional analysis of living tumour cells that shows which drugs are most effective against a patient's cancer. Based on the test results, the treating physician can select suitable chemotherapies, taking into account previous therapies, individual blood values, pre-existing conditions, etc.



What are the benefits of chemo-scale?

Not all drugs work the same on all patients. Some drugs may not prove beneficial for the patient and waste valuable time and resources at a critical point in treatment. chemo-scale can be used to test the effectiveness of chemotherapy before treatment begins. Clinical studies have shown an 86.7% correlation between the chemoresistance profile and the radiological findings on disease progression (across all tumour stages).



How is chemo-scale different from other tests?

- The key difference between other tests and chemo-scale is that Datar Cancer Genetics uses a different approach through which more relevant cells can be identified in the early phase of the disease, enabling a more precise recommendation (see publications).
- While cytotoxic chemotherapy is a common therapy option in most solid tumours, conventional molecular tests mainly provide information on targeted therapy drugs.
- chemo-scale evaluates the actual response of cancer cells to cytotoxic chemotherapeutic agents or complementary substances.
- chemo-scale is clinically validated on more than 5.000 patients.



Sample requirement:

20 - 30 ml blood in EDTA tubes

Turn Around Time (TAT):

10 - 12 working days from receipt of the sample

Relevant publications

- Akolkar, D.B., Crook, T., Page, R. et al. Liquid Biopsies to Enable Non-Invasive Real-Time Functional Chemoresistance Profiling in Solid Organ Cancers. *Journal of Clinical Oncology* 05/2020. 38(15_suppl). p.3525. DOI: 10.1200/JCO.2020.38.15_suppl.3525
- Limaye, S., Crook, T., Page, R., Patil, D. et al. Effect of Previous Chemotherapy Treatments on Circulating Tumor-Associated Cells in Colorectal Cancer *Journal of Clinical Oncology* 02/2020. 38(4_suppl). p.194. DOI: 10.1200/JCO.2020.38.4_suppl.194
- Akolkar, D.B., Patil, S., Mhase, V. et al. In Vitro Chemo Resistance Profiles of Circulating Glial Cells Replicate Chemo Characteristics of Tumor Tissue. *Neuro Oncology* 11/2019. 21(6_suppl). p.vi135. DOI: 10.1093/neuonc/noz175.567
- Akolkar, D.B., Patil, D., Crook, T. et al. Circulating Tumor Associated Cells in Head and Neck Cancers are Resistance Educated per Previous Chemotherapy Treatments. *International Journal of Radiation Oncology* 04/2020. 106(5). p.1121. DOI: 10.1016/j.ijrobp.2019.11.375
- Crook, T., Akolkar, D.B., Patil, S. et al. Abstracts P6-10-11: In Vitro Chemo Interrogation of Viable Circulating Tumor Associated Cells from Breast Cancer Patients. *AACR Cancer Research* 02/2020. DOI: 10.1158/1538-7445.SABCS19-P6-10-11
- Akolkar, D.B., Limaye, S., Patil, D. et al. Circulating Tumor-Associated Cells in Lung Cancers are Resistance-Educated per Previous Chemotherapy Treatments. *Journal of Thoracic Oncology* 01/2020. 15(2_suppl). p.37. DOI: 10.1016/j.jtho.2019.12.100
- Crook, T., Gaya, A., Page, R. et al. Clinical utility of circulating tumor-associated cells to predict and monitor chemo-response in solid tumors. *Cancer Chemother Pharmacol* 11/2020. DOI: 10.1007/s00280-020-04189-8



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