Digital Oncology: The role of IT-solutions in early cancer diagnostics
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Proper framework needs to be established in order to succeed

- Decrease cancer mortality
- Increase fertility rate
- Focus on early diagnostic
- Significant Governmental investments (~ 976 bln RUB)
Effective treatment

Oncomorphology

Patient’s needs in Oncology requires multi-disciplinary approach

Blood oncomarkers

Molecular Diagnostics (PCR)

Sequencing (NGS & CGP)

IT-solutions

Oncocenters
Patient-centric approach
Patient’s needs in Oncology requires multi-disciplinary approach

Oncomorphology
Effective treatment

Blood oncomarkers
Oncocenters
IT-solutions

Molecular Diagnostics (PCR)
Sequencing (NGS & CGP)
17,000 new cases of Cervical Cancer (CxCa) per year in Russia.

35.9% of all CxCa cases are diagnosed on later stages (III-IV).

CxCa is the main reason of death of women from 30 to 40 y.o.

~55,000 new cases of Lung Cancer (LC) per year in Russia.

Up to 75% of all LC cases are diagnosed on Later Stages (III-IV).

~49.6% of patients with LC died in 1 year after diagnostics.

NGS Registration and development for LC early diagnostics and treatment (CDx).
Modern IT-solutions requirements

- Optimized workflow process
- Platform for experience exchange
- Patient-centric & complex approach
- Decision & Action tracking
- Standardization & Unifying
- Personal data protection
IT – solutions yes/no?

IT is about updates
New version = new registration?

Are you up-to-date?
When all trials are done – you already old-fashioned

Timelines are crucial
Tech + Clinical trials may last up to 1 year

Quality and Safety should remain on top

New approach needed
Russian Federal Law No. 323 with taking into account all features & requirements of software products used for medical purposes.
4 steps into CDx approach

Focus on Early Diagnostics

IT-solutions registration simplifying

NGS (CGP) registration in Russia

Governmental reimbursement for NGS and PCR in Oncology
Doing now what patients need next