

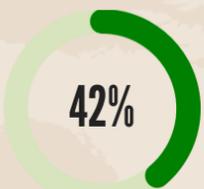
Why Samples are So Important in Precision Medicine Clinical Trials



In precision medicine trials, patient samples (biospecimens) are as important as patients themselves; critical decisions are dependent on sample analyses.



DRUG DEVELOPMENT IS INCREASINGLY DEPENDENT ON BIOMARKERS

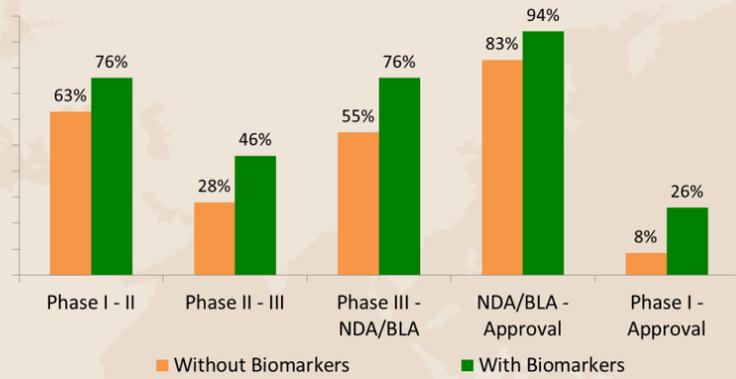


42% of all drugs in development are precision medicines



73% of oncology drugs in development are precision medicines

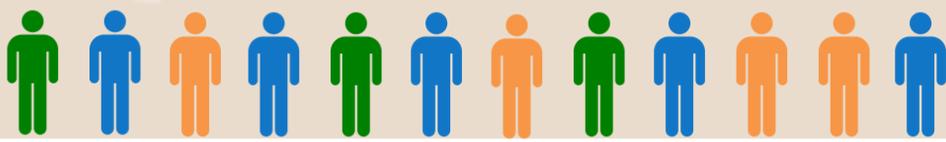
Probability of Success With and Without Selection Biomarkers²



Studies using biomarkers for patient selection have a 17.5% greater chance of success (phase 1 to approval)



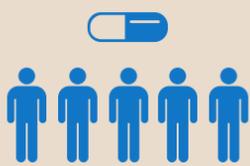
THE USE OF BIOMARKERS FOR PATIENT SEGMENTATION ENHANCES STUDY OUTCOMES



Biomarker analyses are based on patient samples.



Drug interactions are also measured using patient samples.



Biomarker A

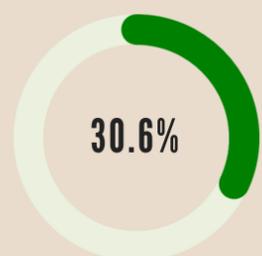


Biomarker B

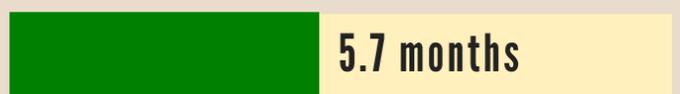


Biomarker C

A study examined the safety and efficacy of 346 phase I oncology trials with over 13,000 total patients. The meta-analysis included 58 treatment arms that employed precision medicine, and 293 that did not.



The oncology trials employing precision medicine showed the average tumor shrinkage rate was 30.6%, compared to 4.9% in the trials that did not.



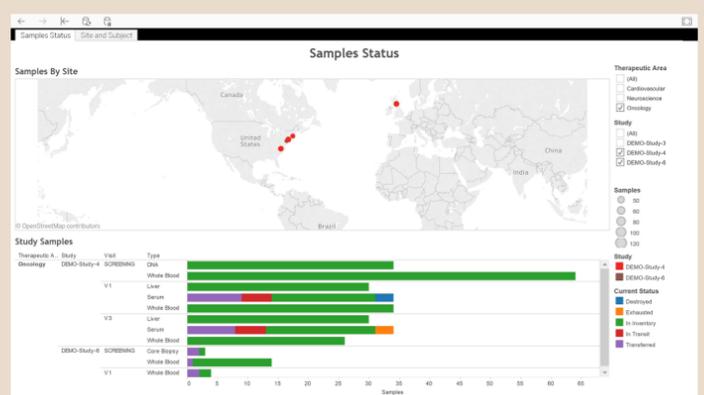
Patients in precision medicine arms also had a longer progression-free survival duration compared to other arms (median 5.7 months vs. 2.95 months).



LABMATRIX LETS YOU SEE WHAT'S GOING ON WITH YOUR PATIENT SAMPLES



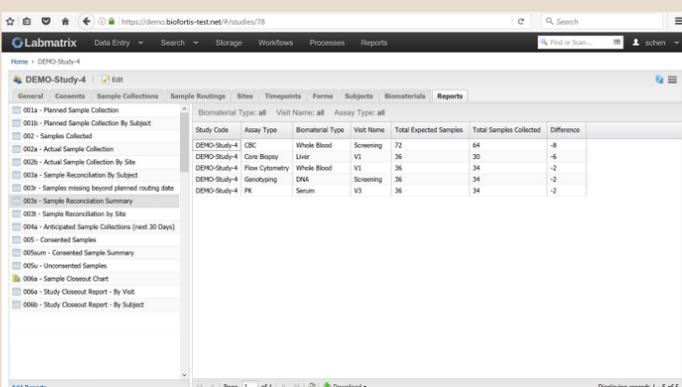
60 - 70% of regulatory submission data in precision medicine trials is based on sample analysis results - which is why it is so important to know the "what, when, and where" aspects of biosamples in and across your studies.



Our Labmatrix software solution lets you see up-to-date biosample activities and alerts with study, site, and other dynamic drill-down dashboards.

REFERENCES

1. The Personalized Medicine Report - 2017: Opportunity, Challenges, and the Future. Retrieved April 5, 2017, from <http://www.personalizedmedicinecoalition.org>
2. (2016, May 18). Precision Medicine Yields Better Outcomes for Patients in Phase I Clinical Trials. Retrieved April 5, 2017, from <https://www.asco.org>
3. Clinical Development Success Rates 2006-2015 - BIO, Biomedtracker, Amplion 2016. Retrieved April 5, 2017, from <https://www.bio.org>
4. Engelhart, Mark. Inside the Central Laboratory Model For Clinical Trials Diagnostic Testing. Retrieved April 5, 2017, from <http://www.pharmavoices.com/article/2016-06-diagnostic-testing/>



Labmatrix users can immediately access pre-configured biosample reports (e.g. collected vs. planned reconciliation) across your clinical trial partners with the click of a button.

More info: www.biofortis.com