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#### **The Year Ahead**

# Experts Predict Big Things for Data and Cross-Industry Collaboration in 2024

xperts anticipate the new year will prove to be an impactful one for data and technology in R&D and clinical trials as companies seek to leverage big data in practical ways, simplify end-to-end data flow for sites, build single platforms for managing data and work together to drive the AI revolution forward. The following are some insights for 2024 from experts at Lokavant and Veeva Systems.



Rohit Nambisan CEO and Cofounder Lokavant

Data-sharing and cross-industry collaboration will power the AI revolution in clinical research in 2024. No one com-

pany has enough data to drive accurate productions around a single disease or use case, which is why cross-industry collaboration like we witnessed during the pandemic will be reinvigorated. During COVID, pharmaceutical companies, clinicians, researchers, technology companies and regulators worked together in harmony, so we know it can be done.

A current example of how this can work is the MELODY trial, which is using federated learning, a data-sharing model that protects companies' proprietary information while still sharing important research data, to provide much-needed, high-quality protein data to help AI/ML models design proteins faster. Protein

drug development is notoriously long, arduous and costly. But in the MELODY trial, the contributing organizations can use AI to adopt generative biology and are experiencing greater efficiency than any individual organization could alone.

Without this level of collaboration, AI won't provide tangible return on investment and adoption will slow to a trickle.



Andreas Matern
Executive Vice President
of Product
Lokavant

Personalized medicine development will continue its fast pace in 2024, which see **Data** on page 4

#### **The Year Ahead**

# DCTs, Digital Therapeutics to Make Further Headway in 2024, Say Experts

ecentralized trial (DCT) methods will continue to evolve in 2024 as a group effort led by the Tufts Center for the Study of Drug Development (CSDD) to gather/utilize DCT data for informing future protocol designs aims to deliver its first dataset in the first quarter. By the end of 2024, decentralization will have established itself as the new gold standard for trials, experts predict.

In addition, experts believe that as digital therapeutics (DTx) continue their

transition away from prescription models in favor of a straight-to-consumer approach, clinical trials will still be necessary for these products as devicemakers confirm their claims and value, though FDA approvals won't.



Pamela Tenaerts Chief Scientific Officer Medable

By the end of 2024, the life sciences industry will replace hypothetical surveys about the impact of decentralized methodologies in clinical research with hard evidence. Tufts CSDD's precompetitive consortium of 50-plus companies will collate metrics to understand how decentralization impacts protocol performance, such as cycle times, patient recruitment and retention rates. The project was funded by the Reagan-Udall Foundation for the FDA and Medable and will be a multiyear effort.

see DCTs on page 5

## Using Collaboration and AI to Repurpose Already-Approved **Medications for New Indications**

Steve Smith, president of patient advocacy at WCG shares insights into the controversial topic of repurposing drugs to treat new conditions.

of drug developers to risk such enormous amounts? Could we not reduce the tax burden or extend their period of postapproval exclusivity to help them recoup

Yes, some think. Such incentives have worked to elevate rare disease research to a mainstream form of drug development and lives have been saved. Drug repurposing has not been supported by similar legislation.

return on investment?

drug seems so logical. A reasonable person could be forgiven for thinking this is already common practice. Since safety and efficacy have been shown in order to gain FDA approval to use a drug for a specific disease, that logic goes, wouldn't researchers check to see what other diseases might be treated using such a drug?

t first, the idea of repurposing a

No, they wouldn't, and they don't. Lives are lost because we don't do enough with the information we already have.

There are multiple reasons for this. All of them make sense when we consider the cost of clinical trials. Many of the indications that might be additional matches for such an approved drug are rare. Since additional clinical trials for subsequent indications cost a lot, that discourages further innovation.

Also, if there were to be an adverse event within a new trial, the existing approved drug might be at risk. There are more reasons. Among them are lack of information about the scientific and genetic characteristics of diseases and how they line up with the mechanisms of action of the approved drug. Often, disease characteristics are buried deep in written journal articles. How is a researcher to know all the possibilities?

Most reasons for not repurposing drugs, such as economic or political hurdles, have solutions. Why not, for example, create incentives for drug developers to repurpose drugs for rare indications? Wouldn't this address the unwillingness "Most reasons for not repurposing drugs, such as economic or political hurdles. have solutions. Why not, for example, create incentives for drug developers to repurpose drugs for rare indications?"

-Steve Smith, President of Patient Advocacy, WCG

Proposals for new repurposing legislation have been shut down almost unnoticed in the heated legislative battles regarding high drug prices, perceived pharmaceutical industry excesses, and the need to appeal to a voting public with easier to understand positions. The nuance of drug repurposing incentives seems too much for legislators to under-

stand, or to get across, in the time they feel they have available to focus on it.

What is certain is that drug repurposing works. Individual cases that dramatically demonstrate this can be found going back years. About 18 years ago, a mother, Dorelia Rivera, saw a drug repurposing opportunity save her baby daughter's life. A serious auto-inflammatory disease was stealing her daughter's eyesight, causing damage in multiple systems, alarming pain, and threatening her life. Rivera remembers this early discussion, "the doctor ... said ... 'I have no idea how to treat it, but I have read that she won't live to see ten years old."

After that, teaming up with the NIH and two pharmaceutical companies, an already-approved drug for rheumatoid arthritis was repurposed in a research study done for this little girl. It worked, and today this lucky girl is in college thanks to the initiative to repurpose the drug. Fortunately for her, someone thought of that drug as a potential match for her disease.

There are numerous cases with such good outcomes, but they happen against a strong current of obstacles. Many people die or lose quality of life because no one learns in time that there is a drug that could be repurposed for them, or no one will fund the research. It is just too "oneoff" stakeholders might think. In many cases, researchers don't know where to start identifying a drug to repurpose.

Recently, however, a small but important surge of success in drug repurposing that is saving lives and demonstrating a model that should be emulated, scaled up, and mainstreamed is happening at the University of Pennsylvania Medical Center's Centers for Orphan Diseases and Cytokine Storm Research led by David Fajgenbaum. Fajgenbaum is well known in rare disease research for having done such repurposing on himself,

see Guest Column on page 6

### Reflecting on MAGI's Impact on Industry Ahead of New Orleans Conference

ith this year's fully virtual MAGI@home conference delivering high-energy insights and receiving a strong reception from attendees, 2024's in-person MAGI conference in New Orleans on April 14-17 is sure to generate more of the same. The following is select coverage from the WCG Talks Trials podcast, which discussed MAGI's success over the years.

To Geoffrey Schick, WCG's director of strategic site partnerships, the conference has demonstrated "durability and the ability to be a long-term solution" for the strong and loyal attendee base of clinical research professionals it has built. But more important than that, it has fostered critical engagement between sponsors, CROs, sites and regulators that's led to positive changes in clinical research.

Take, for example, industry's attention to billing compliance for Medicare coverage analysis in the late 2000s, a time when that activity was still relatively fresh. While there were a few consultants capable of training people on it, sites were just starting to adopt it and still working to get sponsors to regularly foot the bill, Schick said.

But this support sites once struggled to get from sponsors is now widely con-

sidered common practice, in large part due to the topic being featured and discussed at MAGI conferences over the years.

"Through a lot of the work at MAGI in terms of ... sharing of ideas and having conversations between sites and sponsors, that has become more the norm now, where there's very few sponsors that don't expect to see in their study startup fees some component of a startup fee for the ... Medicare coverage analysis," he said during the podcast. "It was sites and sponsors coming together and understanding the need for the value that it brought in and how it's become known."

"When you get [hundreds of] clinical research leaders ... together to talk about topics such as virtual consenting or billing compliance ... and have those across-the-aisle conversations, understanding can take leaps forward," Schick continued. "I think that helps normalize and bring certain change efforts into the mainstream."

MAGI has also furthered conversations on optimizing the study startup process, a discussion that's been going on since at least 2009, including the use of smart forms to make startup efforts easier, says Jennifer Peterson, director and head of clinical quality at M3 Wake Research, a 26-site network in the U.S.

More recently, MAGI has helped make strides in industry's move from paper to eRegulatory in clinical trials. Sites, sponsors and CROs have taken incremental steps when it comes to the adoption and use of eRegulatory systems, and this space has seen its share of challenges, she said. MAGI has served as a platform to openly discuss these struggles and potential solutions.

"One of our sessions within MAGI@ home was about the complexities of moving from paper to eRegulatory and having that type of openness of 'what are your issues, what are your challenges?' People ... sharing those types of issues that they've been having are just an example of what happens even in sidebar conversations in the hallways at MAGI," she said. "It's all about the practical sharing of knowledge."

"Everyone wants to share their passion," Peterson added, "and that is what has made this conference exciting and what has always made me want to return."

Listen to the full podcast episode here.

Register for the next MAGI conference here.



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#### Data

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will lead to a proliferation in data types (including an increased focus on genomic data) and more adaptive trial designs. Data collection - and hopefully data-sharing - will take center stage next year, enabling us to pursue additional research questions and perform meta-analyses.

Despite all the hype around AI and large language models, the key for AI success is our ability to access volumes of well-harmonized, governed, realworld data. With more personalized approaches, clinical trials grow more complex, requiring, again, better modeling and data collection plus a reliance on modern day data engineering and data scientists to identify trends and understand the causality of the therapeutic interventions in question.

The side effects of the pandemic will continue to unfold in 2024 as well. We will see more remote monitoring of patients, as well as the adoption of more digital health technologies, including mobile apps and specialized devices. Collecting and gaining insights from these data sources, coupled with the continuing trend of decentralized clinical trials, will require data strategies from both sponsors and CROs that leverage cloud computing and data governance at a scale that is much different than today.



**Stephen Ohnmacht** Vice President, R&D Business Consulting, Europe Veeva Systems

The life sciences industry has been waiting a long time for big data to transform the commercial viability of personalized medicine. With automation now coming of age, research and development teams can finally seize the opportunity as long as their big data is clean, standardized, interoperable and secure.

In 2024, companies will focus on making big data (which could range from raw trial and site-specific data to IT data points, such as cycle times) more usable by resolving common pain points around cleaning, ownership and standards. As a result, the volume of study data will increase exponentially. This will require a transparent data model with stringent user access controls to address data privacy and cybersecurity concerns.

Leading companies will use automation to make hundreds of marginal and incremental efficiency gains across the development lifecycle, whether deep-querying protocols, detecting patterns during medical imaging analysis or verifying the origin of chemical components. A growing industry impetus will lead to more direct data interface among sponsors, health institutes and regulatory authorities so that "big (clean) data" becomes a reality, creating the right conditions for commercially viable, personalized medicines to reach patients in need.



Jim Reilly Vice President, Development **Cloud Strategy** Veeva Systems

As clinical research sites continue to consolidate and reduce staff in 2024, sponsors will have to compete for the highest-performing sites and principal investigators. They'll do this by building stronger relationships and streamlining their tech stacks to reduce site burden.

Since the pandemic, there's been an explosion of technology intended to give patients more technology options for clinical trials. While this is helpful for patients, it has translated into more technology for sites to deal with. It also placed more emphasis on where trials are being conducted rather than how trial data and information are collected and shared.

From these challenges, we expect to see sponsors investing more in site engagement strategies and site-facing technology and more investment in simplifying the end-to-end data flow. Not only will this approach streamline study execution and management, but it will also lessen the transactional nature of site-sponsor relationships.



**Richard Young** Vice President, Vault CDMS Strategy Veeva Systems

As the complexity of clinical research increases sharply in the coming years, we will realize new operating models for patients, sites and sponsors. To deliver new data and user journeys that connect all clinical research contributors, we will call time on disconnected tools and embrace the platform era.

In previous decades, the industry addressed challenges by throwing resources at every problem. When that didn't work, we created burdensome point solutions that lowered productivity. Sponsors undertaking today's complex trials, including in cell and gene therapy, will need data-driven connectivity so patients can participate effectively and trial data can be reviewed and actioned in real-time. This is only feasible when all relevant data can be managed on the same platform.

Data will be distributed across research participants in a controlled and appropriate manner. Instead of silos, each data point will automatically initiate the next step in clinical trial execution. Humans will remain in the loop even while there is less need for manual intervention and facilitation. This new level of connectivity will drive science forward by providing the flexibility to work with diverse, distributed and exponentially growing data sources.

#### **DCTs**

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The consortium will conduct a granular analysis of actual data to gain a better understanding of the impact of specific clinical trial innovations to better inform future protocol design. With this information, the industry can take a more fit-for-purpose approach to determining how to incorporate decentralized elements into more trials. During COVID, we tried everything. Now, with more evidence, we can get better at matching decentralized innovations to populations, diseases and specific study designs. This could have the add-on effect of decreasing complexity — for instance, rather than trying to implement electronic clinical outcome assessments, wearables and home-health nurses in the same trial (which may be overkill), we can carefully plan to use just the technologies that are most likely to improve outcomes.

As we continue to capture evidence of DCT value, we will increasingly adopt a nuanced approach, but this progression will move at the pace of maturity of each DCT innovation. By the end of 2024, the life sciences industry won't distinguish DCTs from site-based trials anymore. As noted by the FDA, the modernization of clinical trials is an ongoing evolution. In the U.S., it will require an act of Congress to change the definition because the term DCT is used in provisions published by the Food and Drug Omnibus Reform Act of 2022 (FDORA. Other regulators are already talking about trials with decentralized elements (i.e., EMA's recommendations paper) rather than DCTs.

Even with existing regulatory nomenclature, the acronym DCT will become less of a call-out than a distinct type of unique clinical trial, and that is a step in the right direction. The term suggests that a DCT is uncommon and requires special extra adjustments, but that is not true. Recent FDA and other global regulatory agency guidances explicitly note that DCTs simply need to comply with existing regulations for clinical trials – nothing extraordinary. There may be some data quality/privacy/security considerations, but the existing playbook still applies to trials leveraging decentralized innovations.

By this time next year, DCTs will simply be clinical trials (with certain parts appropriately decentralized) and the impact of this model will be much more prevalent.



Alison Holland
Executive GM of Customer
Value
Medable

Over the past 18 months, the industry has spent a lot of time trying to define DCTs and debating what a DCT consists of, but now we are focused on outcomes. DCT methodologies give us more options around evidence collection – opportunities for data capture in real time – all with greater integrity and less friction for the patient. Now as we ring in a new year, we are simply working to decide what elements should be decentralized to get the desired outcome. With more choices about how to package a clinical trial ecosystem, we can make research more of a consumer-like process.

For 2024 and beyond, there will be an increase in focus on patient diversity in clinical trials. The difficulties of a lack of patient representation in clinical research bubbled up to the surface and became a raging boil during the pandemic's vaccine trials, and that issue isn't going away. Some of the approaches may change from what we have learned - for instance, there is far more capacity now to connect with broader patient populations using new digital technologies. Given the convenience of these tools, more patients who become increasingly comfortable with technology will take advantage of digital opportunities to connect to a trial and

remain engaged until the end. This will also help ensure patient compliance for the full duration of a trial even when patience and perseverance start to wane in the later weeks and make it harder to capture consistent data.

The pharmaceutical marketplace is more competitive than ever, particularly in the race to be first to market. For instance, the time between the first FDA approval for a vaccine for RSV to the fourth FDA approval for a similar vaccine was less than six weeks. The first-mover advantage is dramatic, so clinical trial sponsors are hyper-focused on making sure they are maximizing every second and not wasting time. To that end, large pharmaceutical companies are setting lofty goals of 50 percent reductions in cycle time next year; the status quo won't allow them to reach such significant new goals. Sponsors will need to make commensurate changes to accelerate drug development.

DCT methodologies will now be part of the standard toolkit, embedded into most trial processes and operational decisions because sponsors need new ways to engage with patients in a competitive marketplace and collect data reliably. In 2024, the shift to DCT methodologies will be transformative and wholesale, bringing DCT elements into the organization at the portfolio level rather than trial by trial.

Decentralized methodologies allow for higher-fidelity data collection and greater objectivity in signal detection, removing skews and biases. This enables a more informed understanding of an investigational medication's safety and efficacy, which allows companies to reduce the sample size, and fewer participants means less patient recruitment time and lower costs. Roche reduced its sample size by 70 percent this way, helping to speed drug development and time to market.

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#### **DCTs** continued from page 5



**Joel Morse** CEO and Cofounder Curavit Clinical Research

DTx companies will continue to pivot away from prescription models. In 2023, Pear Therapeutics filed for bankruptcy and Akili abandoned the prescription business model. Both DTx companies raised hundreds of millions of dollars by going public in Special Purpose Acquisition Company (SPAC) transactions. While each company successfully gained FDA approvals, the current market acceptance for prescription DTx productsis low and improvements will take years. Given this, many DTx companies will pivot away from the prescription model and go straight to consumers next year. They will continue to run clinical trials to confirm their claims and value proposition but will not seek FDA approvals.

Health economics and outcomes research (HEOR) will become more common in decentralized DCTs. This year, we saw the maturation of claims and health information exchanges, which enable a cost-effective and straightforward process for researchers to gain access to identified patients' data. Given the improvements in costs, trial sponsors can now take advantage of these exchanges at scale and leverage the data for both prescreening and health economic analysis. As DCTs and virtual site acceptance accelerates, a knock-on effect will be that more of these trials will include HEOR analysis.

#### **Guest Column**

as young doctor stricken with a near fatal auto-inflammatory disease, as he describes in his book, "Chasing My Cure."

Now, to help many others, he has established Everycure, a non-profit drug repurposing effort that combines global collaboration, artificial intelligence, and machine learning to survey drugs already approved and match them to possible new indications.

His team is finding matches and running trials. So far, this work has resulted in the treatment of 13 people with newly repurposed medications. In addition to lives saved, Everycure's efforts have shown proof of concept for a massively important model for the future of drug development.

When Fajgenbaum presented recently, he read a quote from FDA Principal Deputy Commissioner Janet Woodcock: "Sadly, no one is responsible for making sure that drugs are fully utilized across diseases. Paradoxically, once a drug is approved ... all hope is lost that it will be studied and used in all diseases it can treat."

Taking responsibility to do his part to change that, Fajgenbaum sees a scaling up as other researchers adopt these methods. "We are not only working on the saving of lives today but showing a way forward to significantly increase the rate of new drug approvals.

It could be that the days of searching through medical journals, article by article, could be left behind, as AI and machine learning rise up. Fajgenbaum's success is a call to action to other researchers and drug companies to embrace drug repurposing.



# **Study Lead Opportunities**

CenterWatch analyzes data in its drug intelligence database to provide advance notice of clinical trials expected to enter the next phase of clinical development soon. Contact information is provided for follow-up. Sponsors/CROs: to list an upcoming trial here, contact Leslie Ramsey, 703.538.7661, lramsey@wcgclinical.com.

Company name	Drug name	Indication	
phase 1			
Asklepios BioPharmaceutical	AB-1005	Multiple system atrophy-parkinsonian type	
Chengdu Origen Biotechnology	KH631	Wet age-related macular degeneration	
Vanotech			
Inipharm	INI-822	Fibrotic liver diseases	
Longboard Pharmaceuticals	LP659	Rare neuroinflammatory conditions	
Neumora Therapeutics	NMRA-266	Schizophrenia/neuropsychiatric disorders	
OncoNano Medicine	ONM-501	Advanced solid tumors and lymphomas	
Orionis Biosciences	ORB-011	Advanced solid tumors	
Plexium	PLX-4545	Tumors refractory to checkpoint inhibitors	
SpyBiotech	SPYVLP01	Human cytomegalovirus vaccine	
TOLREMO therapeutics	TT125-802	Solid tumors	
phase 1a			
ProMIS Neurosciences	PMN310	Alzheimer's disease	
phase 1/1b			
Dragonfly Therapeutics	DF6215	Advanced solid tumors	
phase 1b			
Incendia Therapeutics	PRTH-101 plus pembrolizumab	Advanced or metastatic solid tumors	
phase 1b/2a			
Benitec Biopharma	BB-301 gene therapy	Oculopharyngeal muscular dystrophy-related dysphagia	
Jasper Therapeutics	Briquilimab	Chronic spontaneous urticaria	
phase 1/2a			
ASC Therapeutics	ASC618 gene therapy	Moderate-to-severe hemophilia A	
BioInvent	BI-1910 alone and with pembrolizumab	Solid tumors	
Ceapro	Avenanthramides	Inflammation-based diseases	
phase 1/2			
Alentis Therapeutics	ALE.CO4	CLDN1+ tumors	

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### Study Lead Opportunities continued from page 7

Company name	Drug name	Indication	
phase 1/2			
Ceapro	Avenanthramides	Inflammatory diseases	
Hemab Therapeutics	HMB-001	Glanzmann thrombasthenia	
Neurogene	NGN-401	Rett syndrome in female pediatric patients	
Ocugen	OCU410ST gene therapy	Stargardt disease	
Ocugen	OCU410 gene therapy	Geographic atrophy secondary to dry age-related macular degeneration	
OncoResponse	OR502 alone and with anti-PD-1	Advanced solid tumors	
Vaxcyte	VAX-31 31-valent pneumococcal conjugate vaccine	Invasive pneumococcal disease in adults	
phase 2			
Acadia Pharmaceuticals	ACP-204	Hallucinations and delusions associated with Alzheimer's disease psychosis	
Bolt Biotherapeutics	BDC-1001	HER2+ breast cancer patients who progress after Enhertu	
Carmot Therapeutics	CT-868	Type 1 diabetes in overweight or obese adults	
Cerevance	CVN424	Early-stage Parkinson's disease	
CG Pharmaceuticals	Ivaltinostat	Metastatic pancreatic cancer	
Glycomine	GLM101	Phosphomannomutase 2-congenital disorder of glycosylatio in pediatric patients	
Kymera Therapeutics	KT-474	Moderate-to-severe atopic dermatitis	
Sanofi			
MC2 Therapeutics	MC2-25 VLS	Vulvar lichen sclerosis	
Skye Bioscience	SBI-100 Ophthalmic Emulsion	Primary open-angle glaucoma or ocular hypertension	
Trishula Therapeutics	TTX-030	Metastatic pancreatic ductal adenocarcinoma	
UNITY Biotechnology	UBX1325	Diabetic macular edema	
Vergent Bioscience	VGT-309	Imaging agent in lung cancer surgeries	
phase 2a			
AltruBio	ALTB-268	Ulcerative colitis	
Cocrystal Pharma	CC-42344	Pandemic and seasonal influenza A	
Escient Pharmaceuticals	EP262	Atopic dermatitis	
GRI Bio	GRI-0621	Idiopathic pulmonary fibrosis	
Halia Therapeutics	HT-6184	Lower-risk myelodysplastic syndromes	
Opsidio	OpSCF	Atopic dermatitis	

see Study Lead Opportunities on page 9

#### Study Lead Opportunities continued from page 8

Company name	Drug name	Indication	
phase 2b			
Lexicon Pharmaceuticals	LX9211	Diabetic peripheral neuropathic pain	
Trevi Therapeutics	Haduvio (oral nalbuphine ER)	Chronic cough in idiopathic pulmonary fibrosis patients	
phase 2/3			
Exelixis	Zanzalintinib plus pembrolizumab	Previously untreated recurrent or metastatic head and neck cancer	
phase 3			
Acadia Pharmaceuticals	ACP-101 (carbetocin nasal spray)	Hyperphagia in Prader-Willi syndrome	
Aquestive Therapeutics	Anaphylm (epinephrine) sublingual film	Severe life-threatening allergic reactions	
Aura Biosciences	Bel-sar (belzupacap sarotalocan)	Early-stage choroidal melanoma	
Bayer	Asundexian (BAY2433334)	Patients aged ≥65 years with atrial fibrillation ineligible for oral anticoagulant treatment	
BridgeBio	Infigratinib	Achondroplasia in pediatric patients	
Clarity Pharmaceutical	64Cu-SAR-bisPSMA	Detection of regional nodal metastasis in high-risk prostate cancer patients prior to radical prostatectomy	
DARÉ Bioscience	Ovaprene	Contraceptive	
JCR Pharmaceuticals	JR 441	Mucopolysaccharidosis type IIIA	
Polaris Group	ADI-PEG 20	Leiomyosarcoma	
Sol-Gel Technologies	SGT-610 (patidegib gel, 2%)	Gorlin syndrome	
Telix Pharmaceuticals	TLX591 (177Lu-rosopatamab tetraxetan)	PSMA-positive metastatic castrate-resistant prostate cancer	
Verastem Oncology	Avutometinib and defactinib	Recurrent low-grade serous ovarian cancer	



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# **FDA Actions**

The following is a sampling of FDA regulatory actions taken during the previous month, compiled from CenterWatch and third-party sources, including the FDA and company press releases. For more information on FDA approvals, visit centerwatch.com/fda-approved-drugs.

Company name	Drug name	Indication	FDA action
Alzamend Neuro	AL001	Major depressive disorder	IND approved
Alzamend Neuro	AL001	Post-traumatic stress disorder	IND approved
Carisma Therapeutics	CT-0525	HER2+ solid tumors	IND approved
CARsgen Therapeutics	CT071	Relapsed/refractory multiple myeloma and relapsed/refractory primary plasma cell leukemia	IND approved
Century Therapeutics	CNTY-101	Systemic lupus erythematosus	IND approved
Defence Therapeutics	ACCUM-002 Dimer CDCA-SV40 with and without nivolumab/ relatlimab	Solid tumors	IND approved
GigaGen	GIGA-564	Solid tumors	IND approved
Gracell Biotechnologies	FasTCAR-T GC012F	Refractory systemic lupus erythematosus	IND approved
GRIbio	GRI-0621	Idiopathic pulmonary fibrosis	IND approved
HOOKIPA Pharma	HB-500	HIV	IND approved
Immuneering	IMM-6-415	Advanced RAF or RAS mutant solid tumors	IND approved
Inflammasome Therapeutics	Kamuvudines	Geographic atrophy	IND approved
KSQ Therapeutics	KSQ-001EX	Melanoma, head and neck squamous cell carcinoma and non-small cell lung cancer	IND approved
Lighthouse Pharmaceuticals	LHP588	P. gingivalis-positive Alzheimer's disease	IND approved
MyMD Pharmaceuticals	MYMD-1	Rheumatoid arthritis	IND approved
Nexcella	BCMA CAR-T NXC-201	Relapsed/refractory AL amyloidosis	IND approved
Omnix Medical	OMN6	Hospital-acquired bacterial pneumonia or ventilator-associated bacterial pneumonia	IND approved
Senhwa Biosciences	CX-4945	Community-acquired pneumonia caused by viral infection	IND approved
Soligenix	SGX945	Aphthous ulcers in Behçet's disease	IND approved
TC BioPharm	TCB008	Relapsed/refractory acute myeloid leukemia	IND approved
Tenax Therapeutics	TNX-103 (oral levosimendan)	Pulmonary hypertension with heart failure with preserved ejection fraction	IND approved
Vittoria Biotherapeutics	VIPER-101	Relapsed/refractory T-cell lymphoma	IND approved

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#### FDA Actions continued from page 10

Company name	Drug name	Indication	FDA action
RTI Surgical	Cortiva Allograft Dermis	Breast reconstruction	IDE approved
AstraZeneca	Truqap (capivasertib) plus Faslodex (fulvestrant)	HR+ HER2- locally advanced or metastatic breast cancer with PIK3CA, AKT1 or PTEN alterations	Approved
bluebird bio	Lyfgenia (lovo-cel)	Sickle cell disease	Approved
Bristol Myers Squibb	Augtyro (repotrectinib)	Locally advanced or metastatic ROS1- positive non-small cell lung cancer	Approved
Novartis	Fabhalta (iptacopan)	Paroxysmal nocturnal hemoglobinuria	Approved
SpringWorks Therapeutics	Ogsiveo (nirogacestat)	Desmoid tumors	Approved
Takeda Pharmaceuticals	Adzynma (ADAMTS13, recombinant-krhn)	Congenital thrombotic thrombocytopenic purpura	Approved
Valneva Austria	lxchiq (chikungunya vaccine)	Chikungunya virus	Approved
Vertex Pharmaceuticals	Casgevy (exagamglogene autotemcel)	Sickle cell disease	Approved
CRISPR Therapeutics			
Astellas Pharma	Cresemba (isavuconazole)	Invasive aspergillosis and invasive mucormycosis	Approved in new formulation and for expanded age indication
Astellas Pfizer	XTANDI (enzalutamide)	Nonmetastatic castration-sensitive prostate cancer with biochemical recurrence at high risk for metastasis	Approved for expanded indication
Merck	Keytruda (pembrolizumab)	First-line locally advanced unresectable or metastatic HER2-negative gastric or gastroesophageal junction adenocarcinoma	Approved for expanded indication
Eli Lilly	Jaypirca (pirtobrutinib)	Chronic lymphocytic leukemia or small lymphocytic lymphoma patients who have received at least two prior lines of therapy, including BTK and BCL-2 inhibitors	Approved for a new indication
CorMedix	DefenCath (taurolidine and heparin) catheter lock solution	Catheter-related bloodstream infections	Approved
Medtronic	Symplicity Spyral renal denervation system	Hypertension	Approved

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