A woman with dark hair tied back, wearing blue medical scrubs, is looking directly at the camera while holding a white tablet. The background is a blurred clinical setting.

COVID: How Clinical AI Can Help Bring Employees Back to Work Safely

An AI & data science approach that helps employers build trust, safeguard employees, and proactively mitigate the impact of a future surge

The Costs of COVID

Employers balance returning to work and keeping employees safe

As social distancing and stay-at-home orders begin to flatten the curve, the economic cost grows with each passing day. With the workforce at home and operations stalled, millions of businesses have taken steep financial losses, and many have been forced to cut wages, make lay-offs, and furlough employees. The longer the lockdown lasts, the more devastating the impact will be for businesses across industries, and the more families will face financial hardship.

While the top priority is saving lives, the Federal government has begun issuing recommendations for how states can safely reopen – with several states already reopening parts of their economy. But whether workers have been essential throughout the crisis, are just returning to work, or will return later when the time is right, all workers have a legal right to a safe workplace, and employers need to rethink how they deploy their workforce to maintain that safety.

This is particularly important as healthcare organizations begin to re-start hiring and bringing back furloughed employees. With reopening comes the hope of increasing elective procedures, which will require additional staff.

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Dr. John Frownfelter,
Jvion CMIO

First and foremost, employers need to prioritize keeping vulnerable employees out of harm’s way. “Identifying the employees at greatest risk is the first step to protecting them and the greater community,” says Jvion CMIO Dr. John Frownfelter. By leveraging AI and data science proven to reduce harm in the healthcare setting, employers can better understand the risks of infection, exposure and vulnerability across their workforce, and make informed decisions about how to bring their employees back to work safely.

The Economic Cost of a Pandemic

40%

forecasted decline
in US Q2 GDP

JPMorgan

30M

unemployed

Department
of Labor

6.3%

drop in manufacturing
output in March, the
worst month since 1946

Federal Reserve

8.7%

record drop in
retail sales in
March

CNBC

50%

of small
businesses can’t
survive for more
than 2 months
under current
conditions

NFIB

62%

report working
from home

Gallup

25%

of US pork
production shut
down after 13
meatpackers die
of COVID-19

CNBC

76%

of HR executives report
manager concerns about
remote work productivity
was the top employee
complaint in the COVID
outbreak

Gartner

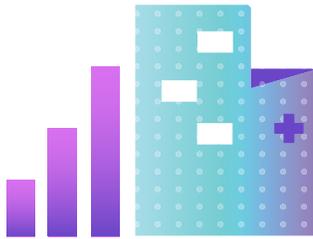
49%

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their top five purchasing
considerations

Morning Consult

The Imperative to Keep Workers Safe

Legal, Operational, and Reputational Considerations for Work in a Pandemic



\$30,000

Average cost of COVID-19 hospitalization

“Nobody knows how long this will last, and to survive in the long run, employers will need to proactively monitor their employee’s health and safety on an ongoing basis.”

Dr. John Showalter,
Jvion CPO

Legal Considerations

The Occupational Safety and Health Act of 1970 (OSH Act) requires employers to provide their employees with working conditions that are free of known dangers. Workers that feel their workplace is unsafe can ask for an OSHA inspection, and take legal action if employees don’t do enough to keep them safe. U.S. Chamber of Commerce President Suzanne Clark recently cited liability concerns as a “[second economic risk](#),” after the shock of pausing operations. Already, healthcare and other organizations have been hit with legal actions as a result of employee deaths and unsafe working conditions.

Operational Considerations

Lawsuits aren’t the only expense businesses may face for not adequately protecting their workforce. Workers that feel unsafe will have lower morale and trust in their employers, which can take a toll on productivity and drive turnover. And with the average cost of COVID-19 hospitalization at \$30,000, infections can add up to significant benefit expenses as well. “Nobody knows how long this will last, and to survive in the long run, employers will need to proactively monitor their employee’s health and safety on an ongoing basis.” says Dr. John Showalter, Jvion CPO.

Reputational Considerations

On top of backlash from employees, businesses can face backlash from customers if they don’t take steps to protect their employees. A recent Morning Consult poll found that 49% of consumers consider whether companies take care of their employees as one of their top five purchasing considerations. “Customers are going to be demanding not just assumptions of safety but visible steps and measures that companies are taking,” notes Chloe Demrovsky, CEO of Disaster Recovery Institute International, a nonprofit dedicated to helping organizations around the world prepare for and recover from disasters. This is an important factor as hospitals look to reopen for elective procedures – patients need a sense of security as they begin to re-engage with the healthcare system on a more regular basis.

In these unprecedented times, employees are still employers' most valuable assets, and employers must take unprecedented measures to protect employees at risk.

Understanding the Risk to Employees

AI allows employers to consider experiential, clinical, socioeconomic, and environmental factors that put employees at greater risk of exposure and infection.

The [CDC](#) estimates that around 25% of those infected with COVID are asymptomatic, while 20% of symptomatic cases will be hospitalized for an average of 4 weeks. Why do some fare worse than others? As with most health conditions, an individual's vulnerability to COVID is rooted in a matrix of clinical, socioeconomic, and environmental factors. Understanding how these factors interact to increase risk is the key to safeguarding your most vulnerable employees.

Clinical AI is uniquely capable of understanding the complex interaction of clinical and non-clinical risk factors and predicting the likelihood of adverse health outcomes and personal vulnerability. Over the last decade, the clinical AI behind the Jvion CORE™ (Care Optimization and Recommendation Engine) has helped over 300 hospitals, payers, and pharmacy benefit managers reduce preventable harm incidents by an average of 30%. The same approach is now being applied to help businesses return to work safely.

The Jvion Employer Recovery Package

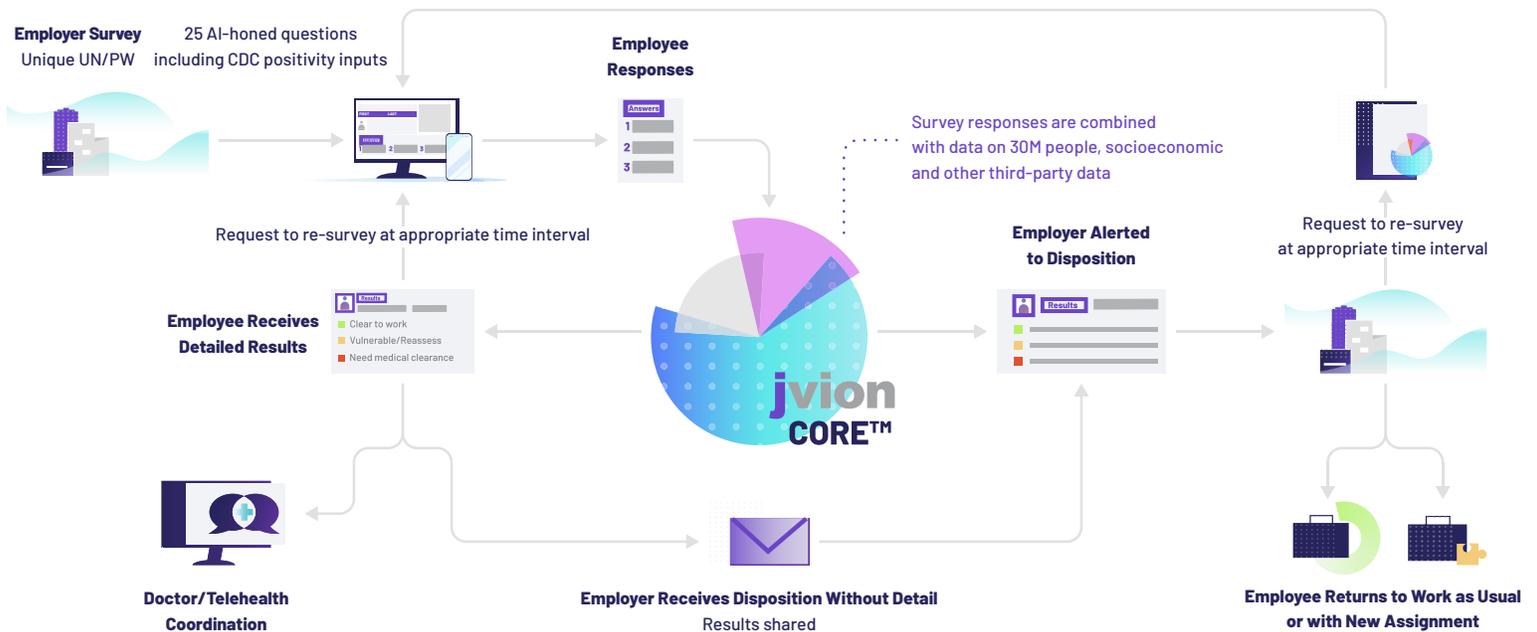
Leveraging clinical AI to identify high-risk employees and proactively monitor employee health and safety

Applying over a decade of experience in clinical AI and data science, Jvion is offering a secure and non-intrusive vehicle for employees to understand their risk and appropriately share that information with their employers. Jvion's Employer Recovery Package enables a multi-layered approach to employee safety, building trust with workers and setting a confident pace for resuming operations.

Individualized Action Plans for Returning to Work

The heart of the offering is an AI-enabled survey, modeled off of predictive values captured from claims data and CDC-recognized symptoms to capture presumptive COVID positivity. The survey informs employees if they are clear to return to work, need medical clearance, or should remain at home for a recommended period of time, after which medical clearance and reassessment will be required. Jvion works with each organization to understand their internal HR policies and practices so the survey and its outputs are shared and managed appropriately.

How It Works



Keeping Employee Safety Front of Mind, Today and Tomorrow

Back-to-work plans can't be limited to the near-term. Nobody knows how long this will last, and there may well be another surge of cases in the fall or winter. Businesses will need to stay vigilant and invest in long-term monitoring and screening of their employees. Regular assessments of employee vulnerability and exposure enable employers to make proactive decisions about remote work assignments, campus closings, and personnel substitutions to protect vulnerable employees.

How to Use the Jvion Employer Recovery Package

Applying employee vulnerability insights from the Jvion CORE™ AI to foster a safe workplace environment

The Employer Recovery Package can be used to:

- Match high-risk employees to low-exposure assignments
- Educate at-risk employees and their families on how to prevent infection
- Identify furloughed workers that can safely return to work
- Identify remote workers that can safely return to the office or campus
- Reduce healthcare expenses from COVID infections
- Increase corporate cleaning services in areas with vulnerable employees
- Inform sick leave planning for vulnerable employees

Underlying Jvion and geolocation data is also available to help inform:

- Supply chain/distribution decisions
- Missed work estimates
- Sales estimates
- Return to campus/work decisions

The Jvion CORE™

The Jvion CORE™ has helped prevent patient harm for almost a decade, and is now helping organizations respond to the COVID pandemic. By leveraging the anonymized clinical data of over 30 million Americans and data on social and environmental risk factors, the Jvion CORE™ maps up to 10,000 factors per patient and assesses their risk of adverse outcomes. The Jvion CORE™ is HIPAA compliant and HITRUST certified, so customers can have confidence that their employees' data is handled with integrity.



Contact us to learn how **Jvion can help protect your workforce from COVID today and tomorrow.**



About Jvion

Jvion enables healthcare organizations to prevent avoidable patient harm and lower costs through its clinical AI solution. An industry first, the Jvion CORE™ goes beyond simple predictive analytics and machine learning to identify patients on a trajectory to becoming high risk and for whom intervention will likely be successful. Jvion determines the interventions that will more effectively reduce risk and enable clinical action. And it accelerates time to value by leveraging established patient-level intelligence to drive engagement across hospitals, populations, and patients. To date, the Jvion CORE™ has been deployed across about 50 hospital systems and 300 hospitals, who report average reductions of 30% for preventable harm incidents and annual cost savings of \$6.3 million. For more information, [visit www.jvion.com](http://www.jvion.com).



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