BATCHMASTER®
Process Manufacturing Software

SAP Business One

MANAGING COMPLEXITIES IN COVID-19 VACCINE MANUFACTURING

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GLOBAL CHALLENGES
IN COVID-19 VACCINE DEVELOPMENT LIFECYCLE

Having a strong manufacturing system to avoid the manufacturing/dosing errors.

Managing the extensive clinical trials, rigorous sample testing, and the approvals.

Meeting the massive vaccine demand and achieving the desired output.

Maintaining the efficacy of the vaccines while moving them through the supply chain.

Ensuring precisely the right concentration of vaccine in every vial.

Pulling off a well-organized distribution program of a vaccine during the pandemic.

Meeting all the required safety, quality, and regulatory measures.

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3 CRITICAL ISSUE AREAS
FOR VACCINE MANUFACTURERS

1 Product Development

- Research & design a formula
- Perform intensive testing
- Quality monitoring and maintaining BOM revisions
- Synchronization of material flow
- Manage iterations of development
- Meet regulations while performing trials and analyzing data

2 Supply Chain Optimization

- Make supply chain resilient
- Knowledge of desired output, and required inventory to meet the schedule
- Capacity analysis todetermine capacity
- Keep vaccines in the defined tolerance range while in transit

3 Commercialization, Distribution, and Post-Distribution Support

- Commercialization is crucial, since only about 10% of clinical trials are successful
- Taking the developed product from the lab to the last person
- Handling the massive data from the medical, commercial, regulatory, and R&D teams
- Role in planning and executing the comprehensive vaccine distribution plan

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VACCINE DEVELOPMENT WORKFLOW

RESEARCH

PRE-CLINICAL TRIALS

CLINICAL TRIALS/ HUMAN TESTING

REGULATORY REVIEW & APPROVALS

LICENSURE

MANUFACTURING & DISTRIBUTION

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BATCHMASTER VACCINES MANUFACTURING ERP SOFTWARE CAN HELP!

Formulation & Laboratory Management

- Formula design based on physical properties analysis like potency and strength
- New product development, R&D, and its costing
- Material substitution in formula and revision tracking

Bills of Materials (BOM)

- Complete visibility into the list of materials and intermediates
- Along with their quantity and unit of measure, packaging material, and dosage of finished drug
- Multiple BOMs for same formula to meet the need of different dosages

Supply Chain Management & Scheduling

- System built specifically for supply chain planning for vaccine manufacturers.
- Ensures availability of adequate raw material for production.
- Insights into upcoming preventative maintenance and repairs.
- Integration with tools for cold chain management

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BATCHMASTER VACCINES MANUFACTURING ERP SOFTWARE CAN HELP!

MRP & MPS

- GGet knowledge of how much and when is to be produced
- And how much, and when the required material is to be procured to meet this schedule

Quality Control

- Ensure quality is a part of every single process at every stage of supply chain
- Right from the point of material entering the facility, through to production, and the distribution

Regulatory Compliance

- Operate in full adherence with all the safety, quality, and regulatory requirements
- Follow all the protocols required in vaccine manufacturing, distribution, and administration

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VACCINES MANUFACTURING ERP SOFTWARE CAN HELP!

Traceability

- Real-time, end-to-end traceability- right from receiving, weighing, formulation to packaging
- Fulfil all compliance and audit requirements, and reduce issue-tracking, and recall time
- Enhance accuracy through inventory and WIP visibility

Sample management, clinical trials, & commercialization support

- Complete support with clinical trials, sample testing, distribution, and commercialization
- Maintain records of samples along with their trial histories in a single database

Distribution management with fleet handling

- Manage the distribution of safe and efficient vaccine to the communities
- Solution for all- vaccine manufacturers, government bodies, healthcare organizations, distributors, and others

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Integration with **BatchMaster's** in-house tools for fleet and personnel tracking and management

- Get granular visibility of the key stakeholders of the entire supply chain.
- Assign the duty of delivering vaccines, define the distribution area, and track the deliveries.
- Integrate this entire data with the data of ERP system, and manage centrally.

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BENEFITS OF HAVING **BATCHMASTER** VACCINES MANUFACTURING ERP SOFTWARE

- Faster time-to-market
- 'Right first time' quality
- Right concentration in every vial
- Absolute compliance to stringent regulations
- Quicker preventive & corrective action
- Platform for continuous development
- Lower cost of higher quality

Learn more at: www.batchmaster.co.in