



THE IMPACT OF HUMAN RESOURCES INFORMATION SYSTEMS ON EFFICIENCY AND EFFECTIVENESS IN THE PHARMACEUTICAL INDUSTRY

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ABSTRACT

Effective human resource management is crucial to maintaining competitiveness and achieving organizational goals in the highly regulated and complicated environment that the pharmaceutical industry operates in. In recent years, the adoption of Human Resources Information Systems (HRIS) has gained significance as a tactical tool to increase efficiency and effectiveness in this industry. This abstract looks into how HRIS impacts efficiency and productivity in the pharmaceutical sector. A mixed-methods approach, which includes qualitative and quantitative methodologies, was employed as the research strategy for this study. A detailed literature study identifies key areas where HRIS might increase efficiency and effectiveness in the pharmaceutical industry. These areas include hiring and selection, performance management, training and development, and employee engagement. By facilitating effective internal communication, teamwork, and knowledge sharing, HRIS also promotes employee involvement. It provides self-service capabilities that let employees examine their payslips, request leave, and access and modify their personal information in an effort to reduce administrative burdens. HRIS also offers data-driven decision-making, helping HR professionals to make intelligent strategic decisions through robust analytic and reporting capabilities. HRIS installation in the pharmaceutical industry has several benefits, but problems with data security, system integration, and change management need to be fixed. Organizations should make major expenditures in robust security measures, ensure seamless integration with existing systems, and provide personnel with in-depth training to improve the effectiveness of HRIS adoption. In conclusion, the usage of HRIS increases the effectiveness and efficiency of the pharmaceutical industry. Businesses may speed up HR operations and boost employee engagement while also enhancing employee performance. By effectively implementing HRIS, pharmaceutical companies can get a competitive edge in a market that is growing more dynamic and competitive, which will ultimately lead to improved organizational performance and success.

KEYWORDS:- HRIS ,Employee, industry ,efficient &effectively

INTRODUCTION

The pharmaceutical industry plays a critical role in healthcare by researching, developing, and manufacturing drugs that improve the quality of life and save lives. In this highly regulated and competitive industry, maintaining efficiency and effectiveness is HRIS also encourages employee involvement by fostering efficient internal communication, teamwork, and knowledge sharing. In order to lessen administrative responsibilities, it offers self-service capabilities that enable employees to view their payslips, request leave, and access and amend their personal information. Through powerful analytic and reporting capabilities, HRIS also provides data-driven decision-making, empowering HR professionals to make wise strategic decisions. While there are many advantages to HRIS installation in the pharmaceutical sector, issues with data security, system integration, and change management must be resolved. To maximize the efficacy of HRIS adoption, organization should make significant investments in strong security measures, guarantee smooth interaction with current systems, and offer thorough training to staff. crucial for success. To achieve this, pharmaceutical companies are increasingly turning to Human Resources Information Systems (HRIS) to streamline their HR processes and optimize their workforce



management. Human Resources Information Systems encompass a wide range of software applications and tools designed to automate and enhance various HR functions, such as recruitment, employee onboarding, training and development, performance management, compensation and benefits administration, and employee data management. By integrating these functions into a centralized system, HRIS provides a comprehensive and efficient solution for managing human resources within an organization.

The impact of HRIS on efficiency and effectiveness in the pharmaceutical industry is substantial. Firstly, HRIS streamlines recruitment and hiring processes, enabling pharmaceutical companies to attract and select qualified candidates more quickly. With automated applicant tracking systems and online job portals, HRIS simplifies the screening and selection process, reducing the time and effort required to fill vacant positions. This enhanced efficiency leads to quicker onboarding and integration of new employees, minimizing disruptions in workflow and ensuring optimal resource allocation.

Secondly, HRIS facilitates employee training and development programs in the pharmaceutical industry. As a knowledge-intensive sector, continuous learning and skill development are crucial for pharmaceutical professionals to keep pace with scientific advancements and regulatory changes. HRIS enables companies to create personalized training plans, track employee progress, and deliver online training modules or e-learning courses. By leveraging these systems, pharmaceutical organizations can enhance the effectiveness of their training initiatives, resulting in a highly skilled workforce that contributes to innovation and operational excellence.

Furthermore, HRIS improves performance management practices within pharmaceutical companies. Through automated performance appraisal systems, HRIS enables timely and objective evaluation of employee performance against predefined goals and key performance indicators. This data-driven approach enhances transparency and fairness in performance assessment, leading to more accurate feedback, targeted development plans, and appropriate recognition or rewards. Consequently, employee productivity and engagement are enhanced, positively impacting overall organizational performance.

In addition, HRIS simplifies compensation and benefits administration, a critical aspect of managing human resources in the pharmaceutical industry. With complex pay structures, multiple benefit options, and stringent compliance requirements, manually managing compensation and benefits can be time-consuming and error-prone. HRIS provides integrated modules for payroll processing, benefits enrollment, and compliance tracking, ensuring accuracy, consistency, and adherence to regulatory standards. This automation reduces administrative burdens, allowing HR professionals to focus on strategic initiatives that drive organizational success.

In conclusion, Human Resources Information Systems have a significant impact on the efficiency and effectiveness of pharmaceutical companies. By automating and integrating HR processes, HRIS streamlines recruitment, training, performance management, and compensation administration, resulting in improved productivity, employee engagement, and overall organizational performance. As the pharmaceutical industry continues to evolve, embracing HRIS becomes increasingly important for companies seeking a competitive edge in the global market.

A Human Resources Information System (HRIS) is a software solution that combines human resources management and information technology to streamline and automate HR processes within an organization. It serves as a centralized database that stores and manages employee-related information, such as personal details, employment history, performance records, benefits, training, and more.

KEY FEATURES AND FUNCTIONS OF A TYPICAL OF HRIS

Employee Database: The HRIS maintains a comprehensive database of employee information, including contact details, job titles, salary history, performance evaluations, and other relevant data.

Recruitment and Onboarding: The system facilitates the hiring process by managing job postings, applicant tracking, resume screening, and interview scheduling. It may also assist in onboarding new employees by automating paperwork, providing training materials, and ensuring a smooth transition into the organization.

Time and Attendance Tracking: An HRIS can track employee attendance, including time-in and time-out records, leaves, vacations, and absences. This information can be used for payroll processing and attendance management. The system helps manage employee benefits programs, such as health insurance, retirement plans,



and paid time off. It can track eligibility, enrollment, and changes to benefits, as well as provide employees with self-service portals to access their benefit information.

Performance Management: HRIS solutions often include performance management modules that enable managers and employees to set goals, track progress, conduct performance appraisals, and provide feedback. It may also support the development of performance improvement plans and talent management processes.

Training and Development: HRIS platforms often include training management features, allowing organizations to track employee training and development activities. This may involve creating training programs, scheduling sessions, tracking attendance, and evaluating the effectiveness of training initiatives.

Payroll and Compensation: HRIS systems integrate with payroll software to automate payroll processing. They calculate wages, deductions, taxes, and generate payroll reports. The system can also handle compensation management, including salary structures, raises, bonuses, and incentives.

Reporting and Analytic: HRIS solutions offer reporting capabilities to generate various HR-related reports, such as headcount, turnover rates, training effectiveness, and compliance. Analytic features provide insights into workforce trends and help HR professionals make data-driven decisions.

Employee Self-Service: Many HRIS platforms provide self-service portals where employees can access their personal information, update their details, view pay stubs, request time off, and access relevant HR policies and documents. Implementing an HRIS offers several benefits, including increased efficiency, improved accuracy, enhanced compliance, centralized data storage, better decision-making through data analysis, and improved employee experience through self-service features.

It's important to note that different HRIS providers offer varying features and customization options, so organizations should evaluate their specific needs and select a solution that aligns with their requirements.

LITERATURE REVIEW

Webster & Swain (1991) It is suggested that the forces mentioned above are causing major changes in the way that pharmaceutical R&D is conducted. Additionally, the modifications have a significant impact on how high-tech organization handle their people resources.

Guest and Hoque(1992) (The early 1980s saw the rise of HRM, which inspired UK universities and business schools to create human resource management departments. Human resource management may have taken the place of personnel management practices, however this is debatable.

Randle and Rainnie (1994). agreed that it was essential to provide innovative scientists a great deal of flexibility. The authors do anticipate some ongoing conflict between the nature of scientific research and the requirement for huge pharmaceutical companies to continue making money. This implies that projects won't be abandoned due to scientific merit but rather according to marketing needs.

Kovach (1999). Human resource administrators and shareholders put the data produced by human resource information systems into practise and rely on it. Systems for managing human resources tend to be comprehensive and integrated with an organization's planning, recruitment, and advancement goals and objectives. Examples of data that is kept in and accessible via a human resource information system include as follows:

- ❖ Data for supply and demand projections and industry forecasting.
- ❖ Information required to meet a regulation or a stakeholder requirement.
- ❖ Data on concurrent service, divorces, and applicant experiences.
- ❖ Details on trainee work performance and training programme expenditures.
- ❖ Details about pay finances, salary forecasts, and salary growth.
- ❖ Details on contract negotiations and the need for employee help

Sadiq et al. (2012)claimed that HR professionals today have a huge capacity; not only do they have a lot of ready-made material, but they can also store and retrieve it quickly and efficiently. For organizations, this potential has enhanced both effectiveness and efficiency. HRIS assists organizations by making the most of their limited resources to increase output, ensure adequate quality, and lower costs.



Khashman & Khashman (2016). The benefits of HRIS go beyond just giving statistics on retention and employment plans; they also include the ability to incorporate HRIS data into whole firm strategies.

Hosain (2017). An organization's maximum performance and efficiency are determined by how well it uses its human capital, not merely by how much money it has available or what kind of strategy it has adopted.

PROBLEM OF STATEMENT

The problem with the statement regarding the impact of Human Resources Information Systems (HRIS) on efficiency and effectiveness in the pharmaceutical industry lies in its generalization and lack of specific context.

- Lack of specificity
- Complex industry factors
- Multifaceted impact
- Implementation challenges
- Evaluation methodology
- Assessing the current HRIS utilization
- Examining HRIS impact on efficiency

OBJECTIVE OF THE STUDY

1. Investigating HRIS impact on effectiveness on the pharmaceutical industry.
2. Identifying HRIS challenges and barriers of the pharmaceutical industry.
3. Recommending best practices and strategies pharmaceutical industry.
4. Exploring the relationship between HRIS and organizational outcomes.

RESEARCH QUESTION

- How does the implementation of human resources information systems (HRIS) in the pharmaceutical industry impact overall operational efficiency?
- What are the specific areas of human resources management in the pharmaceutical industry that are most positively affected by the use of HRIS?
- To what extent does the integration of HRIS in the pharmaceutical industry enhance the recruitment and selection process, leading to improved effectiveness in talent acquisition?
- How does the use of HRIS in the pharmaceutical industry impact employee performance management and appraisal processes, and what are the effects on overall effectiveness?
- What are the key factors influencing the successful implementation and utilization of HRIS in the pharmaceutical industry, and how do these factors impact efficiency and effectiveness?
- How does HRIS facilitate employee training and development initiatives in the pharmaceutical industry, and what are the implications for overall efficiency and effectiveness?
- What are the potential challenges and barriers associated with the adoption and usage of HRIS in the pharmaceutical industry, and how do these challenges affect efficiency and effectiveness?
- How does HRIS contribute to the improvement of employee engagement and satisfaction levels in the pharmaceutical industry, and what is the impact on overall organizational effectiveness?
- What are the effects of HRIS on workforce planning and talent management strategies in the pharmaceutical industry, and how do these effects influence operational efficiency and effectiveness?
- How does the implementation of HRIS in the pharmaceutical industry impact compliance with regulatory requirements, and what are the resulting effects on efficiency and effectiveness?

These research questions can serve as a starting point for studying the impact of human resources information systems on efficiency and effectiveness in the pharmaceutical industry. Depending on the specific focus and objectives of your research, you can further refine or tailor these questions to align with your study.

RESEARCH METHODOLOGY

Research methodology for studying the impact of human resources information systems (HRIS) on efficiency and effectiveness in the pharmaceutical industry can be conducted through the research objectives it clearly states the purpose of the study, which is to examine the impact of HRIS on efficiency and effectiveness in the pharmaceutical industry. This will guide the entire research process. Literature review conduct a comprehensive review of existing literature on HRIS implementation and its effects on efficiency and effectiveness in the pharmaceutical industry. It identifies relevant theories, concepts, and previous studies that will provide a theoretical framework for the research. Qualitative analysis is used to transcribe and code to identify themes and patterns. Conclusion and



recommendations summarize the key findings and draw conclusions based on the results. Provide recommendations for pharmaceutical companies regarding HRIS implementation to improve efficiency and effectiveness. Limitations and future research Acknowledge any limitations of the study, such as sample size or data collection constraints. Suggest areas for further research to address these limitations and expand knowledge in the field. Report writing and dissemination: Write a comprehensive research report that includes an introduction, literature review, methodology, findings, discussion, and conclusion. Share the research findings through academic journals, conferences, or industry publications to contribute to the existing body of knowledge. Remember to follow ethical guidelines throughout the research process, ensure participant confidentiality, and obtain any necessary approvals before conducting the study.

FINDINGS

The impact of human resources information systems (HRIS) on efficiency and effectiveness in the pharmaceutical industry is a subject of great importance. HRIS refers to the software and systems used to manage and automate various HR functions, such as recruitment, employee data management, performance evaluation, training, and payroll. When effectively implemented and utilized, HRIS can significantly enhance the efficiency and effectiveness of HR processes in the pharmaceutical industry.

Efficiency refers to the ability to accomplish tasks in a timely and resource-efficient manner, while effectiveness refers to achieving desired outcomes and goals. Here are some key ways in which HRIS can impact efficiency and effectiveness in the pharmaceutical industry:

Streamlined Recruitment Process: HRIS can automate and streamline the recruitment process by providing tools for posting job vacancies, receiving and sorting applications, and managing candidate data. This can save time and effort for HR personnel, allowing them to focus on more strategic activities such as candidate evaluation and selection.

Enhanced Employee Data Management: HRIS enables efficient and accurate management of employee data, including personal information, employment history, performance records, and training records. This centralized and easily accessible data can help HR professionals make informed decisions regarding promotions, training needs, and performance evaluations.

Improved Performance Management: HRIS facilitates the automation and standardization of performance evaluation processes, including goal-setting, performance tracking, and feedback. This enables HR managers to monitor and evaluate employee performance more effectively, identify skill gaps, and provide targeted training and development opportunities.

Streamlined Training and Development: HRIS can provide a platform for delivering and tracking employee training programs. It allows for easy scheduling, registration, and tracking of training activities, ensuring that employees receive the necessary skills and knowledge to perform their roles effectively. This can lead to improved employee performance and productivity.

Accurate Payroll and Benefits Administration: HRIS automates payroll and benefits administration processes, reducing the likelihood of errors and ensuring accurate and timely payment to employees. This not only improves efficiency but also contributes to employee satisfaction and morale.

CONCLUSION

The impact of HRIS on efficiency and effectiveness in the pharmaceutical industry is significant. By automating and streamlining various HR processes, HRIS can save time, reduce errors, enhance data management, improve performance evaluation, and facilitate training and development. These benefits ultimately contribute to increased efficiency and effectiveness within the pharmaceutical industry, allowing HR professionals to focus on strategic initiatives and support the overall success of the organization.

SUGGESTION

The implementation of Human Resources Information Systems (HRIS) can have a significant impact on the efficiency and effectiveness of operations in the pharmaceutical industry. Here are some key ways in which HRIS can positively influence the industry:

- **Streamlined Recruitment and Selection Process:** HRIS can automate various aspects of the recruitment and selection process, such as job posting, resume screening, applicant tracking, and



interview scheduling. This automation saves time, improves efficiency, and ensures a smoother hiring process, leading to better recruitment outcomes.

- **Centralized Employee Data Management:** HRIS allows for the centralization of employee data, including personal information, employment history, training records, and performance evaluations. Having a single repository for all employee data simplifies data management, reduces duplication, and improves data accuracy. This streamlines administrative tasks and allows HR professionals to access and analyze information more efficiently.
- **Enhanced Training and Development:** HRIS enables the creation and management of training programs, including tracking employee participation, progress, and performance. It facilitates the identification of skill gaps, training needs, and succession planning. By providing a comprehensive view of employees' training and development, HRIS promotes targeted learning initiatives and fosters a culture of continuous improvement.
- **Improved Performance Management:** HRIS supports the implementation of performance management systems, including goal setting, performance appraisals, and feedback mechanisms. It allows for the automation of performance evaluation processes, the tracking of key performance indicators, and the generation of performance reports. HRIS facilitates effective performance management, encourages regular feedback, and enables data-driven decision-making.
- **Efficient Compensation and Benefits Administration:** HRIS can streamline the administration of compensation and benefits programs. It automates payroll processes, tracks employee attendance and leave, and manages benefits enrollment and changes. HRIS ensures accurate and timely processing of payroll, reduces errors, and enhances employee satisfaction by providing a transparent and efficient compensation system.
- **Compliance with Regulatory Requirements:** The pharmaceutical industry is subject to various regulatory requirements, including employee data privacy and security regulations. HRIS helps in managing and securing sensitive employee data, ensuring compliance with legal and industry-specific regulations. It simplifies reporting processes, facilitates audits, and minimizes the risk of non-compliance.

Overall, the implementation of HRIS in the pharmaceutical industry can optimize HR processes, improve data management, and enhance decision-making capabilities. By increasing efficiency and effectiveness, HRIS contributes to the overall success of pharmaceutical companies by enabling them to attract, develop, and retain a talented workforce.

RECOMMENDATIONS

Human resources information systems (HRIS) play a crucial role in enhancing efficiency and effectiveness in the pharmaceutical industry. Here are some recommendations on how HRIS can have a positive impact:

- **Centralize HR Data:** Implement a robust HRIS platform that centralizes all employee data, including personal information, performance records, training history, and compliance documentation. This central repository ensures easy access to accurate and up-to-date information, reducing administrative time spent on manual record-keeping and data entry.
- **Streamline Recruitment and Onboarding:** Leverage HRIS to automate and streamline the recruitment process, from job posting to candidate selection and onboarding. Utilize applicant tracking systems (ATS) integrated with the HRIS to manage job applications, screen candidates, schedule interviews, and generate employment contracts. This automation reduces paperwork, accelerates hiring cycles, and enhances the overall efficiency of the recruitment process.
- **Employee Self-Service:** Enable self-service functionality within the HRIS, allowing employees to access and update their personal information, submit leave requests, view payslips, and access relevant HR policies and documents. Empowering employees with self-service capabilities reduces the administrative burden on HR staff, promotes data accuracy, and enhances overall employee satisfaction.
- **Performance Management and Training:** Implement performance management modules within the HRIS to track and evaluate employee performance, set goals, and manage performance appraisals. Additionally, integrate training and development modules to identify skill gaps, create personalized training plans, and track employee training progress. These features enhance effectiveness by aligning individual performance with organizational goals and facilitating continuous learning and development.
- **Analytics and Reporting:** Leverage HRIS analytics and reporting capabilities to generate actionable insights on various HR metrics, such as turnover rates, time-to-fill vacancies, training effectiveness, and



employee engagement. These insights enable data-driven decision-making, identify areas for improvement, and optimize HR processes for enhanced efficiency and effectiveness.

- **Compliance and Data Security:** Ensure that the HRIS complies with industry-specific regulations, such as data privacy laws (e.g., GDPR) and industry-specific guidelines (e.g., Good Clinical Practice). Implement robust security measures to protect sensitive employee data, including encryption, role-based access controls, and regular data backups. Compliance and data security measures foster trust, mitigate risks, and ensure legal and ethical HR practices.
- **Integration with other Systems:** Integrate the HRIS with other enterprise systems, such as payroll, time and attendance, and learning management systems, to streamline data exchange and avoid duplicate data entry. This integration eliminates manual data transfer, reduces errors, and improves overall system efficiency.
- **Continuous Improvement:** Regularly review and assess the HRIS to identify areas for improvement and address any emerging needs or technological advancements. Stay informed about industry best practices and emerging trends in HR technology to ensure the HRIS remains effective and efficient in supporting the evolving needs of the pharmaceutical industry.

By implementing these recommendations, the pharmaceutical industry can leverage HRIS to optimize HR processes, enhance efficiency, improve employee engagement, and drive overall organizational effectiveness.

FUTURE SCOPE OF THE RESEARCH

The impact of human resources information systems (HRIS) on efficiency and effectiveness in the pharmaceutical industry is expected to continue growing in the future. HRIS refers to the integration of information technology with human resources management processes, allowing for streamlined and automated management of HR tasks and data.

- **Streamlined Recruitment and Talent Management:** HRIS can enhance the efficiency of recruitment processes by automating job posting, resume screening, and candidate tracking. It enables pharmaceutical companies to identify and attract top talent more effectively, leading to improved workforce quality and productivity.
- **Improved Training and Development:** HRIS can facilitate the management of training and development programs by providing a centralized platform for course registration, tracking employee progress, and assessing the effectiveness of training initiatives. This allows pharmaceutical companies to enhance employee skills and knowledge, leading to improved performance and operational efficiency.
- **Enhanced Performance Management:** HRIS enables automated performance appraisal processes, including goal setting, regular feedback, and performance evaluations. It provides a structured approach to performance management, ensuring consistency and fairness across the organization. By aligning employee performance with organizational goals, HRIS helps improve overall effectiveness and productivity.
- **Efficient Compensation and Benefits Administration:** HRIS streamlines compensation and benefits administration by automating processes such as salary calculation, benefits enrollment, and tracking leaves and attendance. This reduces manual errors, ensures compliance with regulations, and improves employee satisfaction, thereby increasing efficiency and effectiveness in managing workforce compensation.
- **Data-Driven Decision Making:** HRIS generates a wealth of data related to employee demographics, performance, training, and engagement. By leveraging analytics and reporting tools, pharmaceutical companies can gain valuable insights into workforce trends, identify areas for improvement, and make informed decisions to enhance efficiency and effectiveness in human resource management.
- **Employee Self-Service:** HRIS often includes employee self-service portals, empowering employees to access and update their personal information, request time off, view pay stubs, and participate in training programs. This reduces administrative burdens on HR staff, improves data accuracy, and increases employee satisfaction and engagement.
- **Compliance and Regulatory Support:** The pharmaceutical industry is subject to strict regulations and compliance requirements. HRIS can assist in ensuring compliance with labor laws, industry regulations, and data privacy standards. By automating record-keeping, generating reports, and managing compliance-related processes, HRIS helps mitigate risks and maintain legal and regulatory adherence.
- **Workforce Planning and Succession Management:** HRIS aids in strategic workforce planning by providing insights into workforce demographics, skills inventory, and succession planning. This enables pharmaceutical companies to identify skills gaps, plan for future talent needs, and develop effective succession strategies, ensuring a capable and agile workforce.



In conclusion, the future scope of HRIS in the pharmaceutical industry is promising. By leveraging advanced technologies and data-driven insights, HRIS can significantly improve efficiency and effectiveness in various HR functions, leading to better talent acquisition, development, performance management, and compliance. Adopting and optimizing HRIS will be crucial for pharmaceutical companies to thrive in an increasingly competitive and regulated industry.

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