

# Systems Analysis in Health Care: Framework and Example

E. Ammenwerth<sup>1</sup>, F. Ehlers<sup>1</sup>, R. Eichstädter<sup>2</sup>, R. Haux<sup>1</sup>, U. Pohl<sup>3</sup>, E. Resch<sup>2</sup>

<sup>1</sup>Department of Medical Informatics, University Medical Center Heidelberg, Germany

<sup>2</sup>Department of Psychiatry, University Medical Center Heidelberg, Germany

<sup>3</sup>Department of Dermatology, University Medical Center Heidelberg, Germany

## Summary

**Objectives:** Due to the high complexity of structures and processes in health care, thorough systems analyses in health care run the risk of becoming very complex and difficult to handle. Therefore, we aimed to support systematic systems analysis in health care by developing a comprehensive framework that presents and describes potential areas of analysis.

**Methods:** A framework for systems analysis in health care was developed and applied in a health care setting. To provide a clear structure, the framework describes the potential views and levels of systems analyses in a health care environment.

**Results:** The framework comprises five views (roles and responsibilities, information processing and tools, communication, business processes, teams structure and cooperation) and five levels of analysis (overall organization, organizational unit, staff member, role, task). The framework was successfully applied in an analysis of the structures and processes of the Department of Child and Adolescent Psychiatry of the University Medical Center Heidelberg.

**Conclusions:** The proposed comprehensive framework aims to structure the views and levels of systems analysis in the complex health care environment. Our first experiences support the usefulness of such a framework.

## Keywords

Systems analysis, communication, coordination, patient care team, delivery of health care, process assessment

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## 1. Introduction: Systems Analysis in Health Care

### 1.1 Background and Motivation

The complexity of information processing in health care institutions is tremendous due to the high complexity of their structures and processes. Nearly everyone working in a hospital has an enormous demand for information, which must be fulfilled to guarantee excellent and efficient patient care [1, 2]. To achieve high-quality patient care, different professional groups, such as physicians, nurses, and administrative staff, must communicate and cooperate closely [3, 4]. The stakeholders' issue is quite complex [5]. Patient care aims must be discussed, decided upon and revised in treatment teams, which are made up of different members for each patient. Processes are highly variable and flexible, standard "reference" patient care processes are difficult to define. Patients receive individual treatment – not only in emergency cases that demand immediate care. Decisions must be made quickly and are often based on incomplete information. Therefore, systematic information management is of tremendous importance in order to plan, monitor and direct information processing in such a way that the information needs of the various user groups are fulfilled in any situation and location [6].

The quality of information management can only be assessed by rigorous systems analysis. The general aim of such an analysis is to analyze the current state and weaknesses of organizational structures and processes in a defined area. A thorough

systems analysis in a health care institution is the precondition for all activities aiming at improving structures and processes in health care, such as business process reengineering, quality management, or the introduction of new information processing tools [3]. The more precise the analysis, the better the structures and processes of the institution can be redesigned, improved or supported [7, 8].

Due to the high complexity and interconnectivity of workflow, information management, communication and cooperation, thorough health care systems analyses run the risk of becoming very complex and difficult to handle. If relevant parts are overlooked, insufficient systems analyses may even lead to project failures [9, 10]. For example, an insufficient analysis of communication may lead to the failure of a new electronic record system [11].

In our opinion, a description of the possible views and levels of a systems analysis in health care could help clearly define the areas requiring analysis without overlooking relevant parts.

Approaches used in more structured environments do not seem useful in assessing the complexity surrounding health care. For example, available frameworks for computer-based enterprise information systems – such as ARIS (Architecture of Integrated Information Systems) [12], or the Zachmann framework [13], concentrate on the computer-supported part of an information systems, often omitting, for example, an explicit analysis of the specific complexity surrounding health care, such as paper-based information processing, communication and cooperation within the health professional team. Thus, they are not

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# Systems Analysis In Health Care

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## Systems Analysis In Health Care:

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### **Table of Contents Systems Analysis In Health Care**

1. Understanding the eBook Systems Analysis In Health Care
  - The Rise of Digital Reading Systems Analysis In Health Care
  - Advantages of eBooks Over Traditional Books
2. Identifying Systems Analysis In Health Care
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Systems Analysis In Health Care
  - User-Friendly Interface
4. Exploring eBook Recommendations from Systems Analysis In Health Care
  - Personalized Recommendations
  - Systems Analysis In Health Care User Reviews and Ratings
  - Systems Analysis In Health Care and Bestseller Lists

5. Accessing Systems Analysis In Health Care Free and Paid eBooks
  - Systems Analysis In Health Care Public Domain eBooks
  - Systems Analysis In Health Care eBook Subscription Services
  - Systems Analysis In Health Care Budget-Friendly Options
6. Navigating Systems Analysis In Health Care eBook Formats
  - ePub, PDF, MOBI, and More
  - Systems Analysis In Health Care Compatibility with Devices
  - Systems Analysis In Health Care Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Systems Analysis In Health Care
  - Highlighting and Note-Taking Systems Analysis In Health Care
  - Interactive Elements Systems Analysis In Health Care
8. Staying Engaged with Systems Analysis In Health Care
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Systems Analysis In Health Care
9. Balancing eBooks and Physical Books Systems Analysis In Health Care
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Systems Analysis In Health Care
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Systems Analysis In Health Care
  - Setting Reading Goals Systems Analysis In Health Care
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Systems Analysis In Health Care
  - Fact-Checking eBook Content of Systems Analysis In Health Care
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web nov 15 2012 hi got an 06 f250 6 0 im having problems with the vacuum lines i have had the cab off to do heads and gaskets and i seem to misplaced a vacuum line i have one unhooked off of the vacuum reservoir also only my defrost is blowing heat and front end is spinning in 2wd i cant find a diagram anywhere and ive read up a little bit on why its

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web sep 14 2011 ok here is the deal i have the factory service manuals for 1986 it covers f150 to f350 e150 to e350 as well as broncos i looked through the manual and found a diagram listed as manual a c heater system vacuum diagram and selector test i believe this is what you need i will post it as soon as i can i am going to try and scan it

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web oct 20 2022 it is a simple diagram that shows the various hoses and connections that make up the 5 4 triton engine s vacuum system the diagram is essential for anyone who needs to work on the engine as it helps to ensure

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the ultimate guide to the 1999 ford f250 vacuum diagram - Oct 05 2022

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web jun 26 2020 having problems finding vacuum diagrams for my 06 f250 5 4 super duty reason for needing these diagrams is i found a gray plastic line i m assuming it s vacuum either unhooked or broken on the passenger side under the hood this may be why i smell gas in the cab or why it stumbles at idle or why it about killed me on the freeway the

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web mar 19 2012 tnt89bronco discussion starter feb 29 2012 i wanted to create a reference sheet that can help eliminate some of the confusion in trying to decode the vacuum diagrams and figuring our what those parts look like here is the vacuum diagram i am working from simply as a reference

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web jun 1 2022 does anyone have a diagram of the vacuum lines coming of the vacuum cannister what i find on google is not helping me at all it is a ford f250 super duty with 5 4l

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