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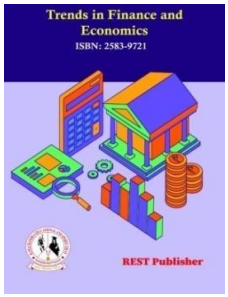

Healthcare Management and Future Prospects Using IBM SPSS Statistics

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Abstract. *Healthcare management hospitals, clinics, drug rehabilitation, and treatment centers for all kinds of health the smooth functions of the facility are health management in ensuring all work involved in health management, and nursing homes and the well-being older care facilities like that. Mba healthcare management is a 2-year course experts for in the health industry focusing on creating. Bachelor of morality graduates and activists national level syndicate 50% of the university% accumulated score, for the course can apply. Health expertise in management a master of business administration (MBA) in health management or management to pursue a career standard for those who want to graduate. A MBA is a business degree this is a business manager finding success information and skills provides for students. healthcare management is by nurses and doctor's various patient care a wide range of opportunities consideration. Work stability as far as it is concerned, the public and private health departments experts in the long run appoint. So, getting a job to get expertise there is a chance. Health for management professionals demand is much higher than average, between 2021 and 2031 employment will increase by 28 percent expected, 56,600 openings per year expected. Health management professionals include hospitals, medical centers, and physician offices better care for the community, and medical products, and act with services they also have to serve. In the administration of health care, the industry in the industry is the best revenue potential, a person in people's lives opportunity to make a difference, and with high demand for health management professionals popular choices. Health for security management the guide is here, in it to consider a profession including five reasons. Health in industry in management is broad there is scale. In various organizations the availability of opportunities, stock topics, and responsibilities are different. A director or ventry from b level there are levels in position management. This means your experience regardless of size, with opportunities to advance into the field, you usually have plenty there are job options. spss statistics is a data management, advanced analytics, multivariate analytics, business intelligence, and criminal investigation developed by ibm for a statistical software package. A long time, spa inc. Was created by, ibm purchased it in 2009. The brand name for the most recent versions is ibm spss statistics. medical devices, biotechnology industry, pharmacies, nursing homes, diagnostics, pharmaceutical industry, hospital industry the cronbach's alpha reliability result. The overall cronbach's alpha value for the model is .703 which indicates 69% reliability. From the literature review, the above 70% cronbach's alpha value model can be considered for analysis.*
Keywords: *medical devices, biotechnology industry, pharmacies,*

1. INTRODUCTION

Healthcare is a multidimensional organization is, it is health issues related to or defects in humans prevented, detected and the only thing to treat installed with purpose. Health professionals' doctors or nurses, health facilities include clinics, drug hospitals to provide, and other diagnosis or treatment technologies key elements of the health system, and both ex supported financial institutions. Health experts include dentistry, medicine, midwife, nursing, psychology, and physiotherapy and many are from health departments. Depending on the urgency of the situation healthcare is needed at many levels [1]. Plant health management is crops, ornaments, and wood trees as plants are their whole gene modified from achieving capacity biology and aquatic succession of factors to understand and deal with science and practice, or other applications. Practice until agriculture, however, is science-based for consideration, plant health management integrated pest management is younger than (ppm), and i.b.as an alternative to m no, but inclusive and creates. Plant success for health management is the biggest collection of stories, cleaning the planting material managed by the number of diseases [2]. for root health management the record is very mixed, loss of soil fumigants or phase, and crop rotation and clean tillage procedures like such as most serious crop and less or in the absence of plowing are changed. Plant health the largest for management science and technology advances are pathogens, insects, and winds managing other risks aimed may have come from work. Genetic-to-jean model about the flax rust created flor's work was twentieth life in the century plant

pathology for science the most important contribution is. Epidemiology, population biology, aerobiology and disease prediction, and decision support modern on systems foliar for theory managing pathogens aimed research is the basis [3]. Hepatitis b virus (HBV) chronic infection with liver failure, cirrhosis, and liver cancer is related to death because of common. Globally, about 350 million people are chronic h. b.v have an infection, and 620,000 people per son h annually. b.v related dying from liver disease. Heba-diets b vaccine h.b.v much more in preventing infection effectively, resulting severe and chronic liver disease occurs. In the united states, newly purchased h.b.v of infect-dons the number has declined significantly, as a result, a comprehensive national immunization program there are triggers. However, chronic h.b.v infection vulnerability is high; 2006 yes in the year, about 800,000-1.4 million u.s. Residents are chronic h.b.with v infection living [4]. Health management is financial, sta_, patients, legal issues, many logistics, inventory, etc including processes. Clinical workflow is often real patient treatment continuous tasks related to related work includes, they are continuous can be planned as conditional erasures. These are the best internal controls and advanced security, compliance, productivity, and hospitals and others within health service providers risk, work cycles, and reduce overhead designed. In the study, many clinical workflows d_erend health management applications were designed for domains [5]. This work is medical data management and complex medical to streamline procedures health smart contract system offers. In the field of health care regarding sophisticated prevention research we discussed, and Ethereum for health management we implemented a based solution. The purpose of this study laminin in the health sector's potential use note and blocker challenges of research and displaying possible directions refers. In this systematic review, a new health solution, mechanism, method, method, or architecture introducing research only includes. Review-type research, potential blockchain applications and applications debate, and other related publications are excluded. Realistic using medical databases, for these health workflows applicable to blockchain characterization, tie rental blockchain in application cases for current adoption this article also makes the possibility analysis. [6]. Bioinvestors and wearable technologies use animal health increasingly for administration emphasis is on. These devices, precisely built if used correctly, proper diseases in animals can be detected at the time, eventually reducing economic losses. Such devices are milk livestock and poultry, especially for farms useful. Farmers only sense and knowledge instead of believing, on-site sensors the body of the animal's reliable data on status can be delivered. Wearable technologies and excellent performance of sensors are cattle an improvement in growth can cause, and the animal very much in the health market impact and practical technology they promise to change. For animals, pets, and the needs of livestock new wearable-to-fill technologies are customized. Drug reefs, monitoring collars, and electronic saddle optimization products at the same rate purchased and farm animals for healthy upbringing used. Wearable technologies are multifunctional and efficient, this is less time for animal owners and allows you to do more. Next in ten years, this sector's global growth is $ 0.91 billion the first $ will rise to 2.6 billion predictably [7]. Biosensors, animal health as an application for the administration, this is a growing market rapid recognition in the global market receives. Globally, animal many health management sensors are made. Accurate health status and to develop a disease diagnosis some technologies for humans only applicable, and some changes or testing in animal models. Now, these innovative technologies' livestock's future in growth and welfare are considered for use. Microfluidics, sound analysis, image-detection techniques, sweat, and saliva sensitivity, serodiagnosis with advanced technologies like that, a wide range of technologies accurate livestock cultivation techniques are used, and others [8]. However, for all available integrate sensors efficient online monitoring method needs to be developed there is a need, and thus the animal delay in health status monitored in real time can. This review sheet is about animals, Nanos biologists, and various infections of livestock diagnosis of diseases advanced molecular biology for diagnostic techniques different wearable the purpose of technologies discusses, animal in the domain of health management these technologies their shortcomings and list about benefits with efforts to compare. In the future advanced animal welfare to be used appropriate approach to provide insight into the recent field of biologists and all developments, for the health of animals and their applications this article considers [9] Any game at any level of players to work in a group, and relationship with the coach required. Services project basic testing, medical assessments, and services and body and mental health assessments must be. This is education performance and social may help with behaviors, more estimates or more bombs for players with tests To be supplied without throwing, but the duration and provides a period these tests for them how to benefit description. D.s.port players health management group health facing related challenges. Current it export model traditional medical model follows this physician (usually a sports physician) primary contact and ‘ gatekeeper ’. However, with a health professional, the first contact is a physical treatment expert, team doctor, public coach, sports doctor, or maybe too a psychologist [10]. The number of chronic diseases and those with chronic diseases both numbers are increasing come. Advanced treatments due to chronic conditions' life expectancy of people are durable. Health systems are the most severe facing one of the challenges is their own health and/or treatment plans with chronic illnesses to manage improve and engage people. With information science and quick technology with growth, electronic health (e-health) for health systems has become an important tool [11]. At their population age, many countries are for their people providing health care services facing economic pressure. In Taiwan, obesity and obesity-related conditions this is due to the increasing rate of the problem increases. Personal health management services promote acceptance health resources to

maintain current personal health and effectively manage delivery one way. This study is mobile health management services (mhms) introduces and mobile health management follow technology executive master of business management projects to explore the purpose of students' technical acceptance of the sample uses (tam) [12]. Healthy lifestyle behavioral behavior begins with chronic disease prevention and keeping the conditions to help manage. Health training interventions are increasingly health management programs are being connected, they are being connected implemented in various systems, from physician practices wide population status throughout health programs, and employer groups. To date, encouraging interview-based health training is fully described, and, continuous positive behavior related to outcomes due to and independently is the only technique that is proven [13]. Occupational in Australian security and health management growing up in systems fame is their effectiveness critical discussion of the debate triggered. Such performance of systems living under expectations this article asks. Research review and a detailed set of the planned interview using, paper results in many takes. First, in occupational safety and health for the management system there are definite requirements it observes that flowed, companies having a system can be said, but it is useful there is little chance of being less likely [14]. In health management, a doctor's experience and results based on judgment are taken. Nowadays, medical intervention is usually single or simple system doctors that are not because every of the medicine uncertainty in the feature there is, that is, diagnosis, laboratory testing selecting, treatment sorting projects, treatment effects evaluation, and others [15].

FIGURE 1. Healthcare Management

2. MATERIALS & METHODS

Medical Devices: Speakers, insulin pumps, operating room monitors, defibrillators, and deep including brain impulses such as surgical instruments medical devices, patient for medical professionals from the body the ability to transmit key health information can be combined. On these devices, some can be remotely controlled.
A medical device is a medical device for use fo2r purposes of any device that wants. For medical purposes when using the device significant for risks energy is natural, thus governments' devices allowing for sale before regulating medical devices are safe with reasonable assurance effective should be their country. As a general rule, the device is related to risk protection and to establish performance the amount of the required test increases as an increase. Also, the associated risk increase in patient potential benefit should be increased.
Biotechnology Industry: The concept of biotechnology according to human purposes, organisms a wide range of modifications including procedures, raising animals, growing plants raising, and "development" going to the "telling" artificial choice and hybridize reproduction used for them through projects. Genetic engineering in modern use and cell and tissue culture technologies include. American chemical society biological organisms, systems, or various processes of businesses science of life and drugs, crops and livestock such products and organisms to learn about improving value. European biotechnology according to the federation, biotechnology

natural science and organisms, cells, their parts and products, and molecular services the integration of analogies. Biotechnology basic biology molecular biology of science, biochemistry, cell biology, embryology, genetics, and microbiology based on and the basis in biology support research provides instructions for doing too.

Pharmacies: Safe, effective drugs and ensure affordable use it is aimed at doing so diagnosis of drugs, production making, preparing, distributing, reviewing, and monitoring science and practice of the drug. It is health science in medicine and natural science this is another science because of the merger. Most drugs now being made by pharmaceutical industries' professional practice is very very medically oriented. Based on the system, a pharmacology practical community or organization is classified as a pharmacy. In the community of institutional pharmacies direct patient care provided as a medical pharmacy is considered. Pharmacology the purpose of the procedure is to use drugs collecting and distributing traditional roles such as includes. Medical services, for safety and efficiency reviewing drugs and providing drug information health care, including modern services related to this includes. Therefore, pharmacists are experts in drug treatment and for the benefit of patients' use of drugs improving primary health professionals.

Nursing Homes: A nursing home is the elderly or the residence of the disabled facility for maintenance. Nursing homes maintenance homes, efficient nursing facilities (SNF) or long-term care facilities can also be referred to as facilities. Often, the terms companies are public or personal, they are often helping life, nursing care, and emergency medical providing maintenance a little different to indicate meanings. Nursing homes in hospitals people who don't need to be used, but can't maintain them at home. Nursing home facility nurses' responsibilities for maintaining patient medical needs, and the responsibility of other employees depending on their teams keep. In most nursing, in nursing homes, assistants and skilled nurses 24 per day the hour is on hand.

Diagnostics: Medical diagnosis (brief dx, dx, or ds) is a person's symptoms and symptoms explain any disease or condition it is the process of determining. This is often a medical environment diagnosis because it is indirect it is referred to as. For diagnosis required information is usually the person looking for medical care from history and physical examination gathers. Often, something like medical tests or detectors more procedures, and during the process is done. Sometimes post humid diagnosis is a kind of medical diagnosis considered. Diagnosis is often a challenge, because many signs' symptoms are also unspecified. For example, redness of the skin (erythema), is a sign of multiple disorders, this is what is wrong with the health professional not saying that. So different diagnoses, many of which are possible the descriptions are comparable and varied. Recognition of forms and various the difference includes the communication of information. Occasionally the process is an identification or sign (or multiple) simplified by a group, this is pathogenic.

Pharmaceutical Industry: Drugs for use as patients or self-managed drugs or medication for pharmaceuticals the industry finds, creates, produces, and market, with the intent of healing, vaccinating them or mitigating the symptoms. Drug companies are common or brand drugs and can be handled on medical devices. They are patent, test, safety, drug testing, and marketing of drugs using performance various laws governing and are subject to the terms. Global drug market 2020th $ 1,228.45 billion in the year created worth of treatment and 1.8% joint annual (cagr) showed growth rate%.

Hospital Industry: Medical profession or that is the health economy the so-called health care industry within the economic system coordination of sectors in the field and consolidation, this disease in patients, prevention, rehabilitation, and immunization treatment. Maintaining health debt to re-establishment supply products and generation of services and this includes commercialization. Services in the modern health industry, products and finance there are three essential branches, and many departments divided into categories and individuals and people's health needs trained to complete professionals and intermediate of paraprofenals depends on groups.

Methods: SPSS statistics is a data management, advanced analytics, multivariate analytics, business intelligence, and criminal investigation developed by IBM is a statistical software package. Long time, spa Inc. Was created by, IBM and purchased in 2009. The brand name for the most recent versions is IBM SPSS statistics. The "statistical package for the social sciences" (SPSS), a set of software tools for changing, analyzing, and displaying data, is commonly used. Multiple formats are available for SPSS. Numerous add-on modules may be purchased to increase the software's capability for data entry, statistics, or reporting. The main application is known as SPSS base. The most crucial of them for statistical analysis, in our opinion, is the SPSS advanced models and the add-on modules for the SPSS regression model. Additionally, independent programs that connect with SPSS are available from spas Inc. SPSS is available in versions for windows (98, 2000, me, nt, and XP), supported by windows 2000 running SPSS version 11.0.1. Although further versions of the SPSS will most likely be available by the time this book is released, we are certain that the SPSS instructions provided in each chapter will still apply to the studies outlined.

2. RESULT AND DISCUSSION

TABLE 1. Reliability Statistics

Reliability Statistics		
Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
.698	.703	7

Table 1 shows the Cronbach's Alpha Reliability result. The overall Cronbach's Alpha value for the model is .703 which indicates 69% reliability. From the literature review, the above 70% Cronbach's Alpha value model can be considered for analysis.

TABLE 2. Reliability Statistic individual

Item-Total Statistics	
	Cronbach's Alpha if Item Deleted
Medical Devices	0.615
Biotechnology Industry	0.682
Pharmacies	0.664
Nursing Homes	0.659
Diagnostics	0.624
Pharmaceutical Industry	0.721
Hospital Industry	0.672

Table 2 Shows the Reliability Statistic individual parameter Cronbach's Alpha Reliability results Medical Devices 0.615, Biotechnology Industry 0.682, Pharmacies 0.664, Nursing Homes 0.659, Diagnostics 0.624, Pharmaceutical Industry 0.721, Hospital Industry 0.672

TABLE 3. Descriptive Statistics

Descriptive Statistics												
	N	**Range**	**Minimum**	**Maximum**	**Sum**	**Mean**		**Std. Deviation**	**Variance**	**Skewness**		**Kurtosis**	
	Statistic	**Statistic**	**Statistic**	**Statistic**	**Statistic**	**Statistic**	**Std. Error**	**Statistic**	**Statistic**	**Statistic**	**Std. Error**	**Statistic**	**Std. Error**
Medical Devices	96	4	1	5	315	3.28	.117	1.149	1.320	-.489	.246	-.121	.488
Biotechnology Industry	96	4	1	5	306	3.19	.128	1.251	1.564	.065	.246	-.991	.488
Pharmacies	96	4	1	5	316	3.29	.129	1.264	1.598	-.156	.246	-.955	.488
Nursing Homes	96	4	1	5	314	3.27	.114	1.119	1.252	-.327	.246	-.271	.488
Diagnostics	96	4	1	5	334	3.48	.147	1.444	2.084	-.311	.246	-1.359	.488
Pharmaceutical Industry	96	4	1	5	318	3.31	.138	1.348	1.817	.014	.246	-1.332	.488
Hospital Industry	96	4	1	5	298	3.10	.131	1.285	1.652	-.107	.246	-.926	.488
Valid N (listwise)	96												

Table 3 shows the descriptive statistics values for analysis N, range, minimum, maximum, mean, standard deviation, Variance, Skewness, Kurtosis. Medical Devices, Biotechnology Industry, Pharmacies, Nursing Homes, Diagnostics, Pharmaceutical Industry, Hospital Industry this also using.

TABLE 4. Frequency Statistics

Statistics								
		Medical Devices	**Biotechnology Industry**	**Pharmacies**	**Nursing Homes**	**Diagnostics**	**Pharmaceutical Industry**	**Hospital Industry**
N	Valid	96	96	96	96	96	96	96
	Missing	36	36	36	36	36	36	36
Median		3.00	3.00	3.00	3.00	4.00	3.00	3.00
Mode		3	3	3	3	5	5	3
Percentiles	25	3.00	2.00	2.00	3.00	2.00	2.00	2.00
	50	3.00	3.00	3.00	3.00	4.00	3.00	3.00
	75	4.00	4.00	4.00	4.00	5.00	5.00	4.00

Table 4 Shows the Frequency Statistics in Medical Devices, Biotechnology Industry, Pharmacies, Nursing Homes, Diagnostics, Pharmaceutical Industry, Hospital Industry values are given. Valid 96, Missing value 36, Median value 3.00, Mode value 3.

Histogram plot:

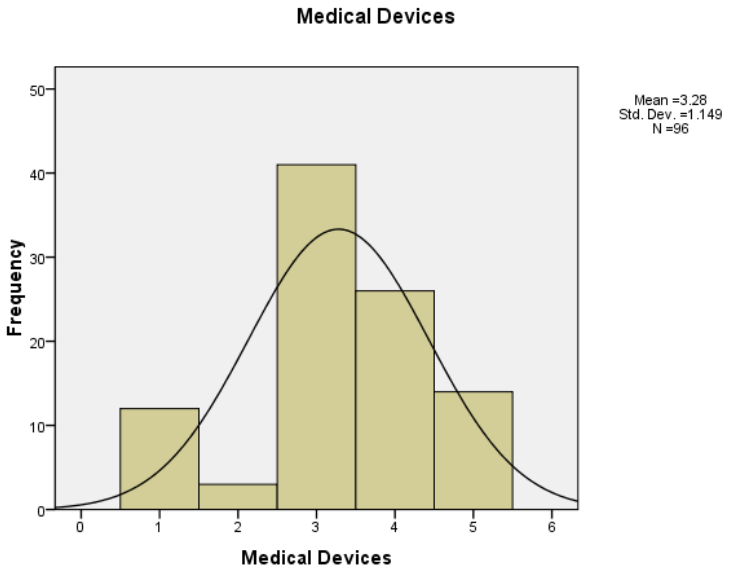

FIGURE 1. Medical Devices

Figure 1 shows the histogram plot for the Medical Devices from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for the Medical Devices except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

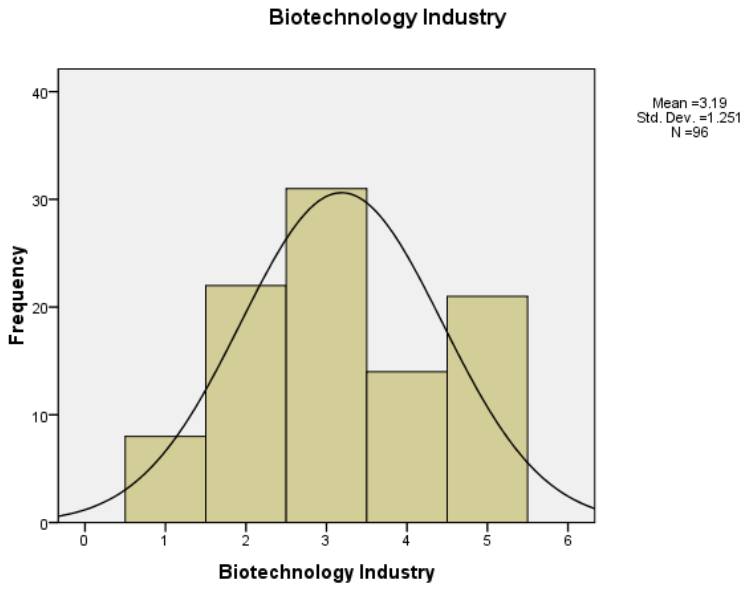

FIGURE 2. Biotechnology Industry

Figure 2 shows the histogram plot for the Biotechnology Industry from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for the Biotechnology Industry except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

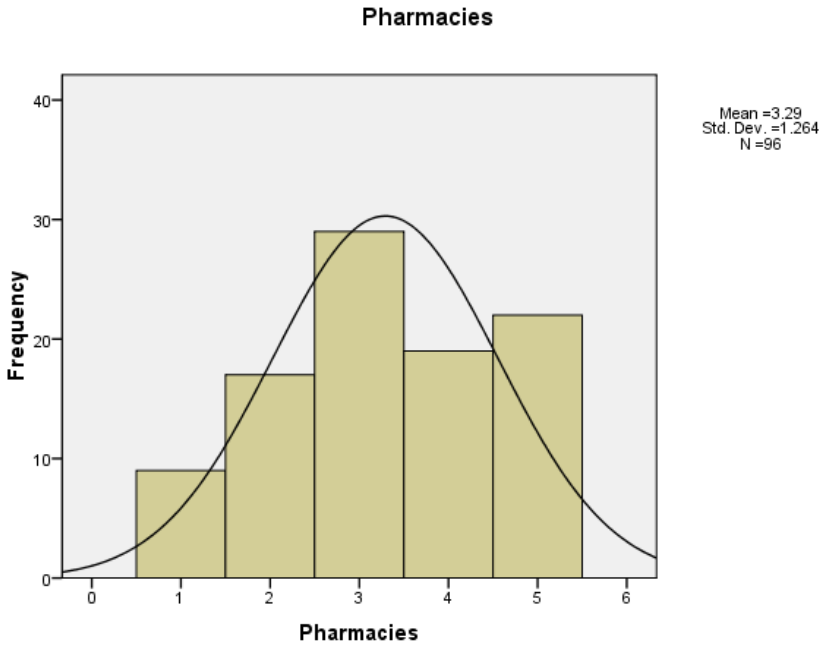

FIGURE 3. Pharmacies

Figure 3 shows the histogram plot for the Pharmacies from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for the Pharmacies except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

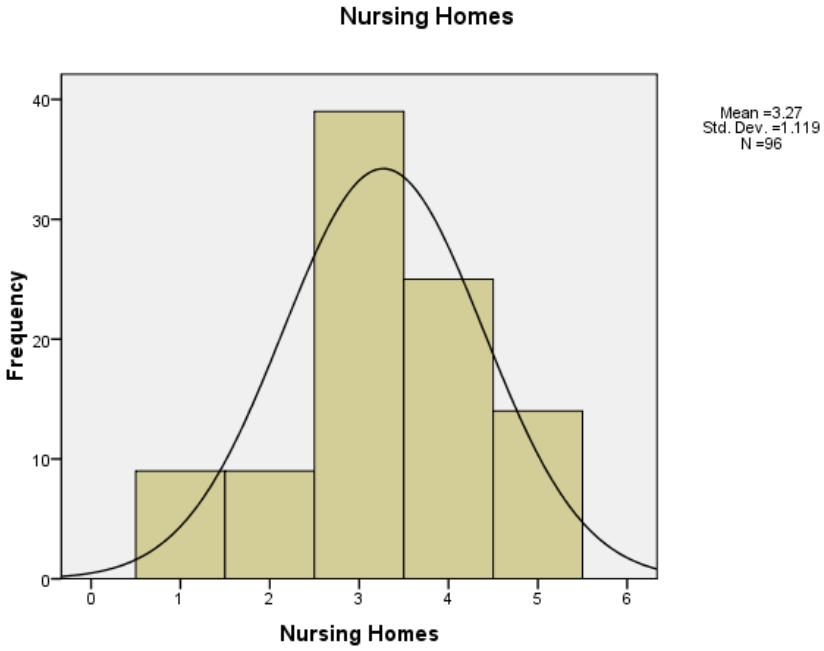

FIGURE 4. Nursing Homes

Figure 4 shows the histogram plot for the Nursing Homes from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for the Nursing Homes except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

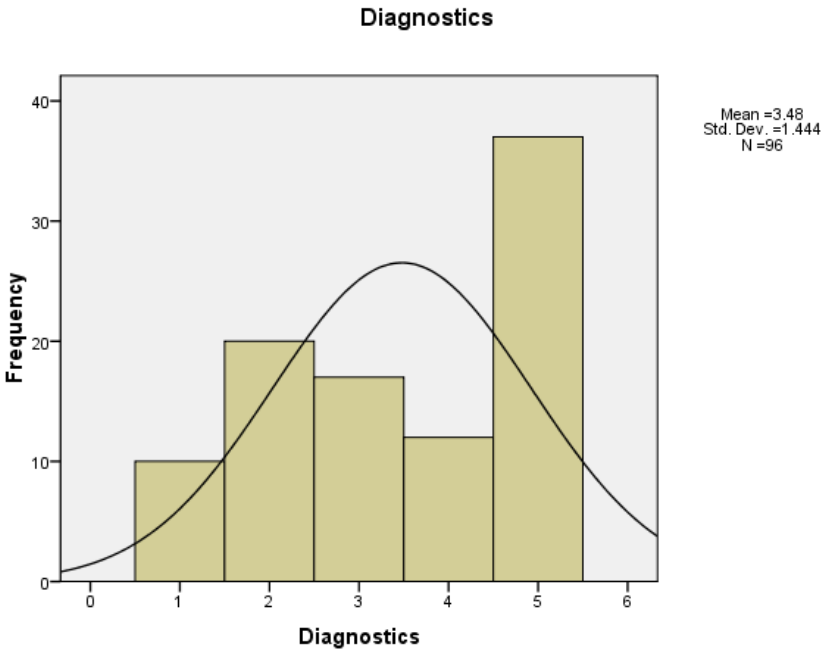

FIGURE 5. Diagnostics

Figure 5 shows the histogram plot for the Diagnostics from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for the Diagnostics except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

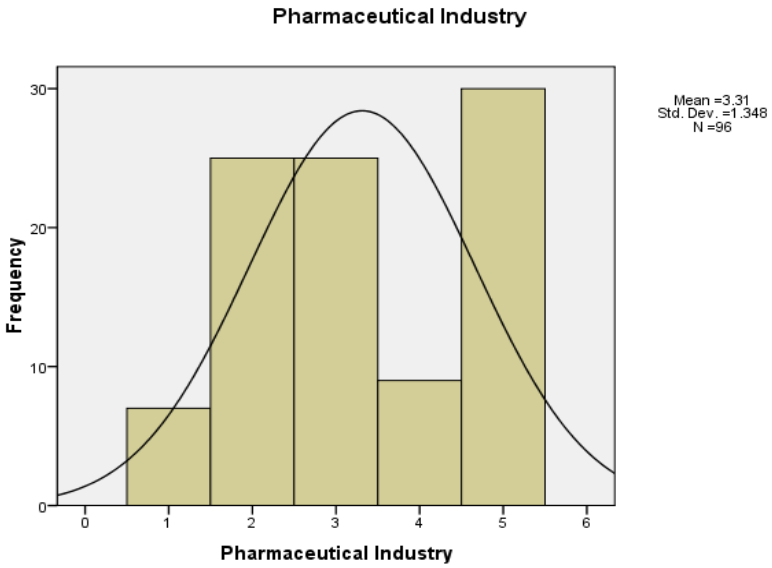

FIGURE 6. Pharmaceutical Industry

Figure 6 shows the histogram plot for the Pharmaceutical Industry from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for Pharmaceutical Industry except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

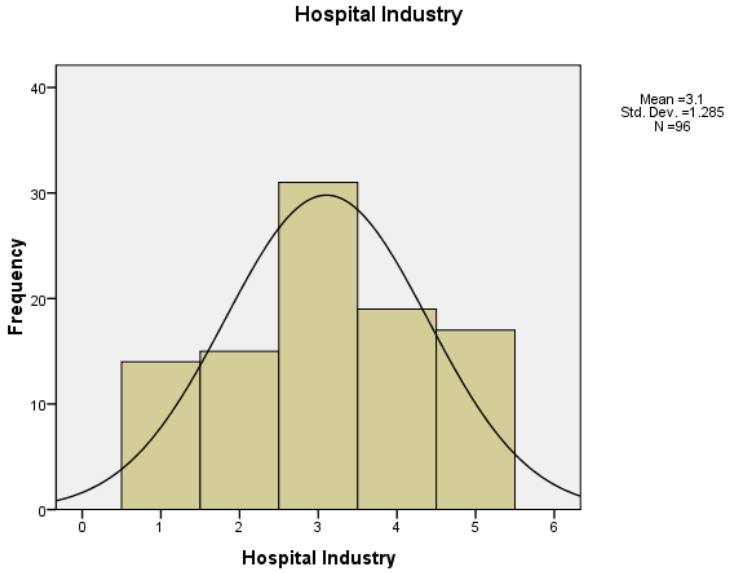

FIGURE 7. Hospital Industry

Figure 7 shows the histogram plot for the Hospital Industry from the figure it is clearly seen that the data are slightly Left skewed due to more respondents choosing 3 for Hospital Industry except for the 2 value all other values are under the normal curve shows the model is significantly following a normal distribution.

TABLE 5. Correlations

Correlations							
	Medical Devices	**Biotechnology Industry**	**Pharmacies**	**Nursing Homes**	**Diagnostics**	**Pharmaceutical Industry**	**Hospital Industry**
Medical Devices	1	.358**	.399**	.431**	.362**	.208*	.393**
Biotechnology Industry	.358**	1	.285**	0.196	.387**	-0.091	0.138
c	.399**	.285**	1	.494**	.326**	-0.073	0.124
Nursing Homes	.431**	0.196	.494**	1	0.199	0.125	0.178
Diagnostics	.362**	.387**	.326**	0.199	1	.317**	.313**
Pharmaceutical Industry	.208*	-0.091	-0.073	0.125	.317**	1	.242*
Hospital Industry	.393**	0.138	0.124	0.178	.313**	.242*	1
**. Correlation is significant at the 0.01 level (2-tailed).							
*. Correlation is significant at the 0.05 level (2-tailed).							

Table 5 shows the correlation between motivation parameters for the Medical Devices for Nursing Homes is having the highest correlation the Pharmaceutical Industry is having the lowest correlation. Next, the correlation between motivation parameters for Biotechnology Industry the and Diagnostics is having the highest correlation with Pharmaceutical Industry having the lowest correlation. Next, the correlation between motivation parameters for Pharmacies for the Nursing Homes is having the highest correlation with Pharmaceutical Industry having the lowest correlation. Next, the correlation between motivation parameters for Nursing Homes and the Pharmacies is having the highest correlation with Pharmaceutical Industry having the lowest correlation. Next, the correlation between motivation parameters for Diagnostics for the Biotechnology Industry is having the highest correlation with Nursing Homes having the lowest correlation. Next, the correlation between motivation parameters for Pharmaceutical Industry the Diagnostics is having the highest correlation with Biotechnology Industry having the lowest correlation. Next, the correlation between motivation parameters for Hospital Industry the Medical Devices is having the highest correlation with Pharmacies having the lowest correlation.

TABLE 6. Factor Analysis

Communalities		
	Initial	Extraction
Medical Devices	1.000	.611
Biotechnology Industry	1.000	.429
Pharmacies	1.000	.655
Nursing Homes	1.000	.473
Diagnostics	1.000	.522
Pharmaceutical Industry	1.000	.719
Hospital Industry	1.000	.487
Extraction Method: Principal Component Analysis.		

3. CONCLUSION

Quickly advancing medicine before the advent of technology, health for physicians the need for managers is high no. However, health data changes in systems (and around health in laws and regulations including regular changes in medical technology continuous growth) hospitals and other medical centers these areas need experts that mean everything to ensure that it runs like that. Healthcare management is the name refers to. It is a clinic or a hospital like an overall health facility management. Budget, the facility the goals of the coaches, and the needs of society are based a to ensure that the health facility operates and a health manager is in charge. Responsible for health management one is the day the facility supervises operations. Jobs in health management growing up, and some bring the best benefits. Health care when thinking about medicine, usually comes to mind characters, but health policies being in a position of impact and how services work and are managed are different skills required and a complete life offers. In your community ability to have an impact on your life or serve health to affect the community management life is yourself allows. Support the community for you to formulate new policies there is a chance, your services train staff to provide, billing and funds like insurance to help them with features that work directly with patients. You are at a high level having an impact, facilities, services, and services provided initiatives are for them really for the people who need it make sure to benefit. Deafness: health care pay skills are best in management, $ 101,340 per year on average also, 10 percent $ 205,620 earn more than that. For entry-level managers, this is more than the national pay average too much. The pay level is directly years of experience, qualifications, location, and with the places where you work related. Hospitals more work on the organization

they command the salary. For health management professionals Needed: health management demand average for professionals is more than that, 2021 and employment between 2031 would increase by 28 percent expected, year 56,600 openings are expected. In health management how to get a job as a security administration a particular life skill of scale, qualifications, and requires experience. However, many in the medical world compared to positions, low Starting at the entry point and your additional to you to act on the way there are options, high-level low demand for graduate degrees.

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