**Data Quality Plan**

**Directions:**A data quality plan can serve as a guideline for how and why data is used throughout a healthcare organization. You will develop a quality management plan based on a series of data analyses, interpretations and organization compliance standards of healthcare information management. Your plan will be a minimum total of 11 pages, with the following information:

**1.** Discuss the elements that should be included in a data quality plan. This plan should consider all the factors that influence the uses of data, data quality, and HIM functions. (minimum 5 pages)

This part of the plan should be a minimum of 5 pages in length, formatted using APA (be sure to cite your sources), and addresses the following topics:

* Discuss the users of healthcare data.
* Discuss the various departments that use healthcare data. How can they potentially use the data and how important is the quality of data?
* Discuss the definitions of data quality characteristics including any strengths and/or weaknesses of each.
* Discuss the importance of data retrieval and analysis in health care.
* Discuss the role of HIM duties in managing and maintaining data. Discuss the functions, responsibilities, and skills required in this role.
* Discuss the various reporting through use of healthcare data.
* Discuss the various ways in which data can be displayed and the appropriate use of each display.
* Discuss data as it is used for research purposes.
* External factors that influence data use (such as legislation and government policies).

**2.**Your plan will include an ongoing compliance and monitoring plan. You will collect, examine, present, and interpret data related to perception of quality of treatment, discharges, utilization review of ancillary services, deaths, and cancer registry entries (based on the charts and graphs you create from the data below). Then, summarize a monitoring plan based on the results of the data. (minimum 5 pages)

*Prepare a table and a bar graph displaying the data shown below (2 graphs)*.  Hospital administration wants to investigate the number of discharges by the four common hospital services:

January – December 20XX  
Medicine 2,224;

Surgery 1,555;

Obstetrics 946;

Newborn 938

*Prepare a comparison bar chart of the data shown.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Community Hospital** **Annual Discharges** **Payer Category** **January – December 20XX** | | | | | |
|  | **Medicine** | **Surgery** | **Obstetrics** | **Newborn** | **Totals** |
| Medicare | 1,503 | 755 | 0 | 2,258 |  |
| Medicaid | 244 | 345 | 205 | 205 | 999 |
| BC/BC | 142 | 230 | 165 | 165 | 702 |
| Other 3rd Party | 250 | 200 | 505 | 505 | 1,460 |
| Self Pay | 85 | 25 | 71 | 63 | 244 |
| Totals | 2,224 | 1,555 | 946 | 938 | 5,663 |

The hospital’s cancer registry reports the following lung cancer deaths due to smoking cigarettes in the following years.

*Construct a line graph of the data. (1 graph)*

2007 - 101;

2008 - 90;

2009 - 103;

2010 - 102;

2011 - 104

The hospital has surveyed adult patients to determine their perception of the quality of their treatment.

The following data represents the patient’s Perceptions of Helpfulness.

*Construct a pie graph of the data. (1 graph)*

Helped greatly - 58.2%;

Helped somewhat- 27.3%;

Not helped - 4.2%;

Uncertain - 10.3%

Your hospital’s Utilization Review Coordinator performed a review of ancillary services used for patients in MS-DRG 552 (Medical Back Problems without MCC).

*First construct a table, then create either a bar graph or column graph for the following data*.

(1 table and 1 graph)

Data is for January 1, 20XX to December 31, 20XX.

Treatment/Test            Service/Number of tests/treatments

Spine x-ray Family Practice = 278 Orthopedics = 278 Neurology = 276

CXR            Family Practice = 240 Orthopedics = 207 Neurology = 130

EMG            Family Practice = 102 Orthopedics = 200 Neurology = 257

ECG             Family Practice = 241 Orthopedics = 180 Neurology = 43

Valium         Family Practice = 257 Orthopedics = 187 Neurology = 198

Analgesics    Family Practice = 137 Orthopedics = 236 Neurology = 221

Codeine       Family Practice = 141 Orthopedics =   41 Neurology =  57

Your state reported the top five leading causes of death for the following years:

Per 100,000 population. *Construct a table and a line graph. (2 graphs)*

Year

**1990**

Heart Disease = 370  Cancer = 160  Cerebrovascular Dis = 110  Accidents = 50 Lower  Respiratory Diseases = 40

**1995**

Heart Disease = 360  Cancer = 160  Cerebrovascular Dis = 100  Accidents = 50  Lower Respiratory Diseases = 42

**2000**

Heart Disease = 340  Cancer = 165  Cerebrovascular Dis =   90  Accidents = 50  Lower Respiratory Diseases = 35

**2005**

Heart Disease = 330  Cancer = 170  Cerebrovascular Dis =   70  Accidents = 60  Lower Respiratory Diseases = 45

**2010**

Heart Disease = 300  Cancer = 200  Cerebrovascular Dis =   60  Accidents = 60  Lower Respiratory Diseases = 50

**3.**Based on your findings, you will propose at least 2 performance and/or quality improvement initiatives.

Document the type of methodology that will be used (such as PDCA).

Please perorm an Internet search on PDCA and other quality improvement methodologies in healthcare to further your understanding. (minimum 1 page)

Submit this assignment to your instructor via the dropbox “**Final Project**." This assignment is worth 230 points and will be graded according to the following scoring guide:

|  | |
| --- | --- |
| Criteria | |
| **1.** | All of the above points are addressed fully. |
| **2.** | Plan shows a thorough knowledge of data quality plan development. |
| **3.** | Correct formatting is used for charts and graphs. |
| **4.** | Paper is grammatically correct. |
| **5.** | Plan is submitted on time. |
| **6.** | Paper is at least 11 pages in length. |