



Accuracy of Fractures Coding Based on ICD-10 for Surgical Hospital Discharges

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Abstract : Coding can facilitate services in presenting information to support the functions of planning, management, and research in the health sector. The exact and complete code can be used as a basis for health financing and for complementary data as a basis for making accurate and accurate inpatient morbidity reports (RL4a). In coding fracture diagnosis, errors often occur because it is necessary to code for the fifth character, coding for multiple fractures and in multiple body regions. The purpose of this study was to determine the accuracy of fracture coding analysis based on ICD-10 for Surgical Hospital discharges. The study was conducted in November 2021 at the Surgical Hospital in Padang City. The research method is descriptive with a qualitative approach. The study population of all medical record files for fracture cases in 2020 was 115 cases. The sampling technique is Simple Random Sampling. Data collection by observation, interview and documentation methods. Processing and analyzing data by collecting (collecting), tabulating (tabulating) and analyzed descriptively. The study was conducted directly on 95 medical record files specifically for fracture cases. that there are inaccuracies in the code in sub-categories 4. The use of characters 4 is important to determine the accuracy of the code of a diagnosis. In addition, it can be seen that the percentage accuracy of the fracture code is 78.94% and the inaccuracy is 21.05. There are inaccuracies caused by several factors other than inaccuracies in the fourth category, namely the presence of a code that is not listed in the medical record document and a diagnosis that is not listed in the medical record document, but the code is listed so that it is categorized by the researcher as an incorrect code.

IndexTerms - Coding, ICD-10, Fracture.

I. INTRODUCTION

The exact and complete code can be used as a basis for health financing and for complementary data as a basis for making accurate and accurate inpatient morbidity reports (RL4a). In addition, coding is useful for facilitating recording, collecting and retrieving information related to the diagnosis or required action. Diagnostic codes are also used to facilitate data entry into computer databases and may be required by payment or billing systems or expense claims.

Coding can facilitate services in presenting information to support the functions of planning, management, and research in the health sector (Depkes RI, 2006). The coding officer must be able to determine the ICD-10 (Diseases Related Health Problems Tenth Revision) code.

In this study, an analysis of fracture diagnosis will be carried out. A fracture is a break in the continuity of the bone caused by external pressure that is greater than that which can be absorbed by the bone (Linda Juall C, 2009). Fractures are divided into two, namely closed fractures and open fractures. In coding fracture diagnosis, errors often occur because it is necessary to code for the fifth character, coding for multiple fractures and in multiple body regions.

Research related to the analysis of the accuracy of this fracture coding has previously been carried out by Bagaskoro et al (2013), regarding the Analysis of the Accuracy of the Femoral Fracture Diagnosis Code in Medical Record Documents for the 2012 Period at Tidar Magelang Hospital and the results obtained that all medical record documents are 100% inaccurate. In line with that, Rahmadani (2018), conducted a study on the Accuracy of the Diagnostic Code in Fracture Cases at the PKU Muhammadiyah Bantul General Hospital in 2018 and obtained the results of the most coding inaccuracies found in different criteria of 1 character, 37 (36%) in fracture cases.

The purpose of this study was to determine the Accuracy of Fractures Coding Based on ICD-10 for Surgical Hospital Discharges. This research is very important to do because the accuracy in giving the code is related to the basis in health financing and can affect the quality of medical record files which will have implications for improving the quality of services, basics and hospital accreditation.

II. RESEARCH METHODOLOGY

The research method is descriptive with a qualitative approach. The study population of all medical record files for fracture cases in 2020 was 115 cases. The sampling technique is Simple Random Sampling. Data collection by observation, interview and documentation methods. Processing and analyzing data by collecting (collecting), tabulating (tabulating) and analyzed descriptively. The study was conducted directly on 95 medical record files specifically for fracture cases. The first step is to collect secondary data, namely case report data in 2020 for all fracture cases. Then the selection of data that can be taken is carried out. One by one the medical record documents were opened and the diagnosis was recorded for fracture cases. Furthermore, an analysis of the accuracy of the code against ICD-10 is carried out, then data analysis and interpretation is carried out.

III. RESULTS AND DISCUSSION

3.1 Analysis of the accuracy of the diagnostic code in cases of fracture based on ICD-10

In this study, the coding accuracy was observed based on the ICD-10. The International Classification of Diseases (ICD) has become the standard diagnostic classification for epidemiological and health management purposes, and has been subjected to continuous update and revision. The current version, ICD-10, was introduced in 19934.

Table 3.1: Analysis of the accuracy of the diagnostic code in cases of fracture based on ICD-10

No	Diagnosis	Code from hospital medical records department	Code based on ICD-10	Accuracy Review	Analysis
1	Closed fraktur patella	S82.00	S82.00	Accurate	According to ICD-10
2	Closed fraktur radius dextra	S52.50	S52.50	Accurate	According to ICD-10
3	Closed fraktur proximal humerus dextra <i>Secondary Dianosis:</i> Closed fraktur distal radius dextra	S42.20	S42.20	Accurate	S42.20 Fracture of upper end of humerus and include Proximal end
		S52.60	S52.60	Accurate	S52.60 Fracture of lower end of both ulna and radius
		T02.20	Code not checked	Code not checked	T02.20 Fractures involving multiple regions of one upper limb (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
		E11.9	Code not checked	Code not checked	E11.9 Non-Insulin-Dependent Diabetes Mellitus without Complications (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
4	Open fracture tibia fibula dextra	S82.21	S82.21	Accurate	S82.21 Fracture of shaft of tibia
5	Malunion tibia fibula dextra	M84.06	M84.06	Accurate	M84.06 Malunion of fracture .6 dextra
		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
		E11.9	Code not checked	Code not checked	E11.9 Non-Insulin-Dependent Diabetes Mellitus without Complications (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)

6	Fraktur terbuka metatarsal II, III pada dextra	S92.31	S92.31	Accurate	S92.31 Fracture of metatarsal bone .1 open fracture
7	Union distal humerus sinistra	the code is not listed in the medical record document	the code is not listed in the medical record document	Code not checked	The code is not included in the medical record document
8	Malunion distal radius dextra	M84.03	M84.03	Accurate	According to ICD-10
9	Malunion distal humerus dextra	M84.2	M84.02	Not Accurate	The code is not accurate in the 4th sub category
10	Closed fraktur distal radius dx	S52.50	S52.50	Accurate	S52.50 Fracture of lower end of radius
11	Ruptur musculus tibialis anterior cruris sinistra	S86.2	S86.2	Accurate	Injury of muscle (s) and tendon (s) of anterior muscle group at lower leg level
12	Closed fracture distal radius sinistra	S52.50 I10	S52.50 Code not checked	Accurate Code not checked	S52.50 Fracture of lower end of radius I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
13	Closed fracture radius sinistra <i>Secondary Dianosis:</i> Dislocation elbow sinistra	S52.50 S53.1	S52.50 S53.1	Accurate Accurate	S52.50 Fracture of lower end of radius S53.1 Dislocation of Elbow, unspecified
14	Close fraktur distal radius sinistra	S52.50 K76.9	S52.50 Code n ot checked	Accurate Code not checked	S52.50 Fracture of lower end of radius K76.9 Liver disease, unspecified (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
15	Closed fracture calcaneus sinistra	the code is not listed in the medical record document	S92.00	Not Accurate	Code not listed in medical record , correct code S92.00 Fracture of calcaneus (closed .0)
16	Closed fracture radius dextra Closed fracture promixal ulna dextra	S52.50 S82.10 T02.36 I10	S52.50 Code not checked Code not checked Code not checked	Accurate Code not checked Code not checked Code not checked	S52.50 Fracture of lower end of radius S82.10 Fracture of upper end of tibia T02.3 Fractures involving multiple regions of one lower limb. There is no fourth category on the ICD-10 .6 I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
17	Union distal humerus sinistra	Z47.0	S42.4	Not Accurate	S42.4 Fracture of lower end of humerus. Error code
18	Malunion olecranon dextra	M84.03	M84.03	Accurate	According to ICD-10
19	Malunion femur dextra	M84.05 D62	M84.05	Accurate	According to ICD-10

20	Closed fracture humerus dextra	S42.30	S42.30	Accurate	According to ICD-10
21	Malunion distal tibia fibula dextra	M84.6	M84.06	Not Accurate	There is no ICD code M84.6, Malunion of Fracture M84.0, 6 codes from the 4th character namely tibia fibula
	<i>Secondary Diagnosis: Anemia</i>	D62	D62	Accurate	D62 Acute posthaemorrhagic anaemia
22	Closed fracture distal radius dextra	S52.50	S52.50	Accurate	S52.50 Fracture of lower end of radius
		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
23	Closed fracture tibia fibula sinistra	S82.20	S82.20	Accurate	According to ICD-10
24	Closed fracture radius ulna dextra	S52.40	S52.70	Not Accurate	S52.70 Multiple fracture of forearm
25	Closed fracture clavícula dextra	S42.00	S42.00	Accurate	S42.00 Fracture of clavicle
		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
26	Closed fracture radius ulna sinistra	S52.50	S52.70	Not Accurate	S52.70 Multiple fracture of forearm
27	Closed fracture distal radius ulna sinistra	S52.50	S52.60	Not Accurate	S52.60 Fracture of lower end of both ulna and radius. There is an error in the fourth category
28	Closed fracture distal radius sinistra	the code is not listed in the medical record document	S52.50	Not Accurate	Code not listed in medical record S52.50 Fracture of lower end of radius
29	Fracture tibia sinistra	S82.20	S82.2 0	Accurate	S82.20 Fracture of shaft of tibia
30	Closed fracture femur sinistra	M96.6	S72.90	Not Accurate	S72.90 Fracture of Femur, part unspecified. Code error
31	Closed fracture distal radius dextra	the code is not listed in the medical record document	S52.50	Not Accurate	Code not listed in medical record, S52.50 Fracture of lower end of radius
32	Open fracture wrist and hand level	S62.61	S62.81	Not Accurate	Code S62.6 is incorrect because .6 is part of the finger (phalanx), correct code is wrist S62.81 Fracture of other and unspecified parts of wrist and hand
		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
		E11.9	Code not checked	Code not checked	E11.9 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
33	Non union humerus dextra post ORIF	M84.12	Accurate	Accurate	M84.12 Nonunion of fracture [pseudarthrosis]
		Z47.0	Code not checked	Code not checked	Z47.0 Follow-up care involving removal of fracture plate and other internal fixation device (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
34	Malunion distal tibia fibula dextra	M84.6	M84.06	Not Accurate	M84.06 Malunion of fracture

35	Malunion distal radius sinistra	M84.03	M84.03	Accurate	According to ICD-10
36	Closed fracture collum femur dextra	S72.00	S72.80	Not Accurate	S72.80 Fracture of other parts of femur (collum)
38	Malunion proximal phalange digiti II manus dx	M84.04	M84.04	Accurate	M84.04 Malunion of fracture Fifth categories: .4 Hand carpus fingers metacarpus joints between these bones
39	Bone loss post osteomyelitis ulna sinistra	M86.93	M86.93	Accurate	M86.93 Osteomyelitis, unspecified Third categories: .3 Forearm Radius Ulna Wrist joint
40	Closed fracture supracondylar humerus sinistra	S42.40	S42.40	Accurate	According to ICD-10
41	Neglected dislocation elbow dextra sinistra	S53.1	S53.1	Accurate	According to ICD-10
42	Closed fracture proximal femur sinistra	S72.30	S72.30	Accurate	Fracture of shaft of femur
43	Closed fracture radius sinistra	the code is not listed in the medical record document	S52.50	Not Accurate	Code not listed in medical record, S52.50 Fracture of lower end of radius
44	Close fraktur distal radius sinistra	S52.50	S52.50	Accurate	According to ICD-10
45	Closed frdcture clavícula sinistra	S42.00	S42.00	Accurate	According to ICD-10
46	Closed frdcture clavícula sinistra	S42.00	S42.00	Accurate	According to ICD-10
47	Closed fraktur distal radius sinistra	S52.50 I10	S52.50	Accurate	According to ICD-10
48	Closes fracture distal radius sinistra <i>Secondary diagnosis:</i> HT DM	S52.50 I10 E11.9	S52.50 I10 E11.9	Accurate Accurate Accurate	S52.50 Fracture of lower end of radius I10 Essential (Primary) Hypertension E11.9 Essential (Primary) Hypertension
49	Open fraktur distal humerus (s)	S42.41	S42.41	Accurate	According to ICD-10
50	Closed Fracture Patella Dextra	S82.00 I10	S82.00	Accurate	According to ICD-10
51	Closed Fracture Distal Radius Sinsitra	S52.50	S52.50	Accurate	According to ICD-10
52	Negleted ruptur tendon extensor digiti II manus sinistra	S66.3	S66.3	Accurate	According to ICD-10
53	Close fraktur metatarsal II, III, dx	S92.30	S92.30	Accurate	According to ICD-10
54	Closed fracture Ulna dextra	S52.20	S52.20	Accurate	According to ICD-10
55	CF distal radius dextra	S52.50	S52.50	Accurate	According to ICD-10
56	Implant failure post orif radius dextra	M96.6	M96.6	Accurate	Fracture of bone following insertion of orthopaedic implant, joint prosthesis, or bone plate

		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
57	Open fraktur tibia sinistra	the code is not listed in the medical record document	S82.21	Not Accurate	S82.21 Fracture of shaft of tibia.
	Secondary Diagnosis: Closed fraktur humerus dextra	the code is not listed in the medical record document	Code not checked	Code not checked	
	Closed fracture olecranon dextra	the code is not listed in the medical record document	Code not checked	Code not checked	
58	Close nasal bone fracture + Epistaxis	S02.20	S02.20	Accurate	S02.20 Fracture of nasal bone Put R04.0 Epistaxis as secondary diagnosis
59	Close fracture humerus dextra	S42.30 I10	S42.30	Accurate	According to ICD-10
60	Close fracture tibia dextra	S82.20 D64.9	S82.20	Accurate	According to ICD-10
61	CF Clavicula dextra	S42.00 E11.9 I10	S42.00 Code not checked Code not checked	Accurate Code not checked Code not checked	S42.00 Fracture of clavicle E11.9 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>) I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
62	Closed fracture clavicula (s)	S42.00	S42.00	Accurate	According to ICD-10
63	Closed fraktur distal tibia fibula dextra	S82.30	S82.30	Accurate	According to ICD-10
64	Closed Fracture Distal Humerus Sinistra	S42.40	S42.40	Accurate	According to ICD-10
65	Diagnosis not listed	S86.0	Code not checked	Not Accurate	Error code, diagnosis is not listed in the medical record document
66	Close Fracture Scaphoid Sinistra	S62.00	S62.00	Accurate	According to ICD-10
67	Close Fracture Distal Tibia Fibula Sinistra	S82.30	S82.30	Accurate	According to ICD-10
68	Closed Fracture Distal Radius Dextra	S52.50	S52.50	Accurate	According to ICD-10
69	Close Fracture Distal Humerus Dextra	S42.40	S42.40	Accurate	According to ICD-10
70	Closed Fracture Radius Sinistra	S52.30	S52.50	Accurate	S52.50 Fracture of lower end of radius
71	Closed Fracture Clavicula Dextra	S42.00 I10	S42.00 Code not checked	Accurate Code not checked	S42.0 Fracture of clavicle .0 close fracture I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)

		E11.9	Code not checked	Code not checked	E11.9 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
72	Closed Clavicula Dextra	S42.00 K76.9	S42.00	Accurate	According to ICD-10
73	Negledele Dislokasi Posterior Shoulder Sinistra Secondary Diagnosis: Fraktur Proximal humerus Sinistra	S43.0 S42.0	S43.0 S42.00	Accurate Not Accurate	S43.0 Dislocation of shoulder joint, S42.00 Fracture of clavicle *If there is no mention of an open or closed fracture, it is considered closed
74	Closed Fracture Clavicula dextra	S42.00	S42.00	Accurate	According to ICD-10
75	Malunion Distal Radius Sinistra	M84.03	M84.03	Accurate	M84.0 Malunion of fracture 3 Forearm Radius Ulna wrist joint
76	Diagnosis not listed	S72.00	Code not checked	Code not checked	Error code, diagnosis is not listed in the medical record document
77	Diagnosis not listed	D24	Code not checked	Code not checked	Error code, diagnosis is not listed in the medical record document
78	Closed Fracture Distal Radius Sinistra	Tidak Ada	S52.50	Not Accurate	Code not listed in medical record, S52.50 Fracture of lower end of radius
79	Closed Fracture Collum Femur Sinistra	S72.00 K76.9	S72.00 Code not checked	Accurate Code not checked	S72.00 Fracture of other parts of femur *collum
80	Closed Fracture Proximal Tibia dextra	S82.10	S82.10	Accurate	According to ICD-10
81	Closed Fracture Distal Femur Sinistra	S72.40	S72.40	Accurate	S72.4 Fracture of lower end of femur
82	Malunion Metacarpal II Manua Dextra	M84.04	M 84.04	Accurate	According to ICD-10
83	Closed Fracture Clavicula Sinistra	the code is not listed in the medical record document	S42.00	Not Accurate	Code not listed in medical record, S42.00 Fracture of clavicle
84	Closed Clavicula Dextra	S42.00 K76.9	S42.00 Code not checked	Accurate Code not checked	S42.0 Fracture of clavicle .0 Close fracture
85	Closed Fracture Distal Radius Ulna Dextra	the code is not listed in the medical record document	S52.60	Not Accurate	Code not listed in medical record, S52.60 Fracture of lower end of both ulna and radius
86	Closed Fracture Distal Humerus Sinistra	S42.40	S42.40	Accurate	According to ICD-10
87	Tidak Ada	S86.0	Code not checked	Code not checked	Error code, diagnosis is not listed in the medical record document
88	Close Fracture Scaphold Sinistra	S62.00	S62.00	Accurate	According to ICD-10
89	Close Fracture Distal Tibia Fibula Sinistra	S82.30	S82.30	Accurate	According to ICD-10

90	ClosedFracture Distal Radius Dextra	S52.50	S52.50	Accurate	According to ICD-10
91	Close Fracture Distal Humerus Dextra	S42.40	S42.40	Accurate	According to ICD-10
92	Closed Fracture Radius Sinistra	S52.30	S52.50	Not Accurate	S52.50 Fracture of lower end of radius
93	Closed Fracture Clavicula Dextra	S42,00	S42.00	Accurate	S42.00 Fracture of clavicle I10 Essential (Primary) Hypertension E11.9 Non-Insulin-Dependent Diabetes Mellitus without Complications
		E11.9	Code not checked	Code not checked	E11.9 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
		I10	Code not checked	Code not checked	I10 Essential (Primary) Hypertension (<i>The diagnosis is not listed on the medical record document, only the code listed</i>)
94	Closed Clavicula Dextra	S42.00	S42.00	Accurate	S42.00 Fracture of clavicle
		K76.9	Code not checked	Code not checked	Error code, diagnosis is not listed in the medical record document
95	Closed Fracture Distal Radius Ulna Dextra	Tidak Ada	S52.60	Not Accurate	Code not listed in medical record, S52.60 Fracture of lower end of both ulna and radius

Based on the table above, it is known that there are 95 medical record documents for which coding analysis was carried out. The inaccuracy of the code is caused by several factors, including errors in encoding the third and fourth characters. In addition, the code written without a diagnosis is included in the inaccurate code. For more details, see the details below:

Table 3.2: Analysis of the accuracy of the diagnostic code in cases of fracture based on ICD-10 Review of Code Accuracy Based on ICD-10 in the 4rd sub category

Accuracy	Amount	Percentage
Accurate	84	88.42%
Not Accurate	11	11.57%

Based on Table 3.2, it is known that the coding accuracy percentage level in the third 4rd category is 88.42%. While the inaccuracy is 11.57%.

Table 3.3: Analysis of the code is not listed in the medical record document

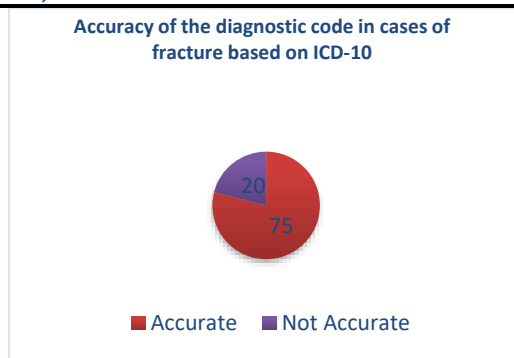
Analysis	Amount	Percentage
Listed	87	91.57%
Not Listed	8	8.42%

Based on Table 3.3, it is known that the percentage level of code is not listed in the medical record document 8.42% while the listed is 91.57%.

Table 3.4: Analysis of the accuracy of the diagnostic code in cases of fracture based on ICD-10

Accuracy	Amount	Percentage
Accurate	75	78.94%
Not Accurate	20	21.05%

Based on Table 3.4, it is known that the coding accuracy percentage is 80%. While the inaccuracy is 20%. For more details can be seen in the image below:



Pic 1. Accuracy of the diagnostic code

Table 3.5: Analysis of the diagnosis is not listed on the medical record document

Analysis	Amount	Percentage
Listed	92	96.84%
Not Listed	3	3.15%

Based on Table 3.5, it is known that the coding accuracy percentage is 96.84%. While the inaccuracy is 3.15%

3.2 Discussion

From the results of the research above, it can be seen that there are inaccuracies in the code in sub-categories 4. The use of characters 4 is important to determine the accuracy of the code of a diagnosis. In addition, it can be seen that the percentage accuracy of the fracture code is 78.94% and the inaccuracy is 21.05. There are inaccuracies caused by several factors other than inaccuracies in the fourth category, namely the presence of a code that is not listed in the medical record document and a diagnosis that is not listed in the medical record document, but the code is listed so that it is categorized by the researcher as an incorrect code.

The accuracy of the diagnosis code is useful for indexing the recording of diseases and actions in health service facilities, input for the medical diagnosis reporting system, facilitating the process of storing and retrieving data related to the diagnosis of patient and service provider characteristics, the basic material in grouping DRGs (diagnosis related groups) for the payment billing system. service costs, national and international reporting of morbidity and mortality, tabulation of health service data for the evaluation process of medical service planning, determining the form of services that must be planned and developed according to the needs of the times, analysis of health care financing, and for epidemiological and clinical research (Hatta, 2008).

Fracture is a term for loss of continuity of bone, cartilage, either total or partial, usually caused by trauma or physical exertion. The strength, angle and force, the condition of the bone itself, and the soft tissue around the bone will determine whether the fracture that occurs is complete or incomplete, so a patient must go to the hospital to get health services (Helmi, N, 2012).

The importance of a diagnosis code in order to facilitate the recording, collection and retrieval of information related to the diagnosis or required action. Diagnostic codes are also used to facilitate data entry into computer databases and can be required by payment systems or billing fees or cost claims (Maimun and Silitonga, 2021).

Donny's research (2017), entitled The accuracy of coding the diagnosis of fracture cases in hospitalized patients at the dr.S.Hardjolukito General Hospital Yogyakarta in 2017, the results of his research show that the percentage of accuracy in coding fracture diagnoses and the inaccuracy of coding fracture diagnosis from 70 medical records analyzed obtained 43 or 61% of medical records whose diagnosis code is said to be correct and 27 or 39% of medical records whose diagnosis code is said to be incorrect

According to the Journal written by Carlina Mahardika Loka and Rano Indradi Sudra, 2012 said that the accuracy of the coding of a diagnosis is very dependent on the implementer who handles the medical record, namely medical medical personnel in determining the diagnosis, medical record personnel as coders and other health personnel recording personnel. The medical officer as the coder is responsible for the accuracy of the diagnosis that has been determined by the medical personnel for things that are unclear or incomplete, it needs to be communicated to the doctor concerned who made the diagnosis. The officer's accuracy will produce a clear and accurate code if the code is not clear, the officer immediately asks the doctor who is authorized to provide a diagnosis because the accuracy of the code will result in the right claim process for claiming an accident insurance or BPJS health.

IV. CONCLUSION

There are inaccuracies caused by several factors other than inaccuracies in the fourth category, namely the presence of a code that is not listed in the medical record document and a diagnosis that is not listed in the medical record document, but the code is listed so that it is categorized by the researcher as an incorrect code.

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