

病院情報システムからの標準データ形式 によるデータの取り出しと2次利用

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1

Contents

- ⌘ 高速臨床情報検索システムD*D
 - ☐ その長短
 - ☐ 病院情報システム上でケースカードを作る
 - ☐ ゲノム情報への拡張
- ⌘ 厚生労働省診療情報標準的交換推進事業SS-MIXの概要と現状
- ⌘ 各種アンケート
 - ☐ 診療情報の扱いに関する市民アンケート(日米)
 - ☐ 2次利用についての調査(アジア12カ国)
- ⌘ 検索力向上による特定リスクの増加例
- ⌘ 提言
 - ☐ 目的の吟味と、まずはクリーンルーム方式で

"pravastatin (or others, any titer) and AST > 150 subsequently within 2 weeks"

Search result: 83 patients, search time 112.22 seconds

Patient list shows a selected patient has "HIT" prescription twice, 1997/10/22, and 10/29, and graph of AST show peak high value recorded on 1997/11/04, within two weeks of the medication.

The screenshot shows a web-based medical database search interface. On the left, there are search filters and a list of results. On the right, there is a detailed view of a patient's record, including a table of prescriptions and a line graph of AST levels over time.

Callouts from the left side of the image point to specific parts of the screenshot:

- Mevalotin (Pravastatin) and other generic drugs prescribed, and within 2 weeks, recorded AST > 150**: Points to the search criteria and the patient's prescription list.
- Result: 83 patients, search time 112.22 seconds**: Points to the search results list.
- List of patients, with "sequence" timing dates. First patient has "HIT" sequence timing twice, 1997/10/22, 1997/10/29**: Points to the patient list and the specific prescription dates.
- AST=176 on 1997/11/04**: Points to the peak on the AST graph.

The graph shows AST levels (Y-axis, 0 to 180) over time (X-axis, 1997-08-13 to 1997-12-10). A significant peak is labeled with the value 176 on 1997/11/04.

Search examples in Hamamatsu University Hospital

⌘ In 2007, number of patients with HbA1c=6.6-8.0, then examined again in 2-3 months

☒ -5.8: 55 cases, 5.9-6.5: 289 cases, 6.6-8.0: 657 cases, 8.1-: 192 cases

⌘ "Gemzar"(gemcitabine, a cytosine-antimetabolites) injected patient: 181 cases

☒ "After the injection" interstitial pneumonia (ICD-10 J84.x) diagnosed case: 7 cases

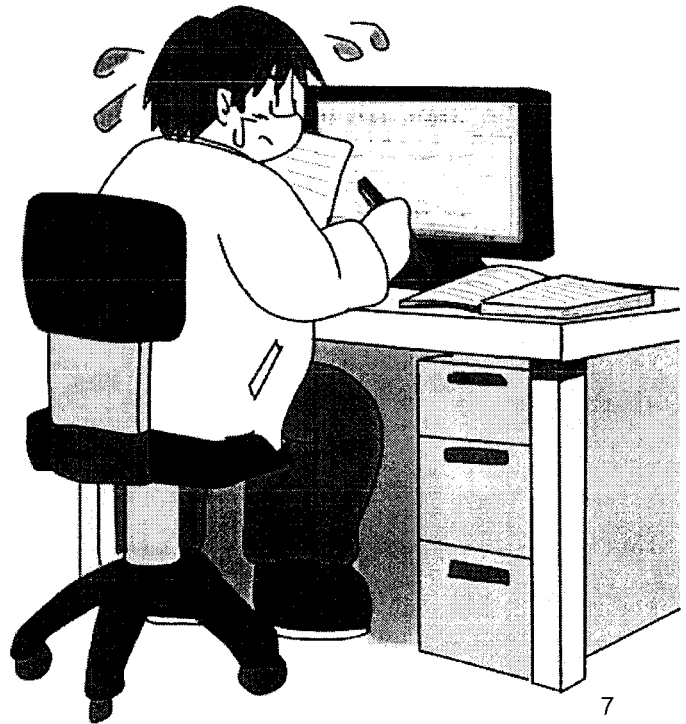
⌘ Stroke onset, and within 3 years recurrence?

☒ Classification "Stroke" is not reliable, as it can be used for reimbursement reasons of CT scan.

ケースカード作成

ほとんどがオーダシステムにあるデータ

- ☑ 該当薬処方歴
- ☑ 併用薬
- ☑ 検査結果



Michio Kimura, H.

市販後調査システムAEReport

SS-MIXストレージが持っている情報により、患者基本情報、施設基本情報、当該薬処方歴、併用薬処方歴、検体検査結果は入力する必要がない

AEReport - Windows Internet Explorer

患者情報 (1074360) Storage Area

処方歴 2008.06.08 ~ 2008.09.08

[Chemical Laboratory results]

Item	Unit	Reference value	Before medication					Through medication					After medication					Follow up					
			001	01	03	05	07	001	01	03	05	07	001	01	03	05	07	001	01	03	05	07	
WBC	/mm ³	5 - 20			14		21		10		15		14		15		14		15		14		15
MPV	fL	4 - 43			8		21		10		10		9		10		9		10		9		10
PLT	/mm ³	113 - 384			147		199		197		187		147		187		147		187		147		187
LDH	U/L	121 - 245			119		120		140		120		159		120		159		120		159		120
T-Bil	mg/dL	0.2 - 1.2			0.7		0.4		0.7		0.7		0.7		0.7		0.7		0.7		0.7		0.7
Urea-N	mg/dL	5 - 20			10		18		15		8		11		8		11		8		11		8
Cr	mg/dL	0.47 - 0.79			0.50		0.55		0.57		0.59		0.59		0.59		0.59		0.59		0.59		0.59
RBC	4.7 - 4.9	378 - 500			397		411		417		417		387		417		387		417		387		417
HGB	g/dL	11.2 - 15.0			12.5		13.6		13.6		13.6		12.8		13.6		12.8		13.6		12.8		13.6

Abnormal data should be reported in the AE report

AEReport - Windows Internet Explorer

http://localhost/AEReport/FEA1014308

患者情報 1014308 Sunaga, Ao

1952-07-17生まれ 女性 患者情報

処方歴

2008 06 08 ~ 2008 09 08

2008 04 21

- OHP(surgery)
- Rp1
 - Amlodipine Tablets 2.5mg 1 TAB
 - Lipitor Tablets 10mg 1 TAB
 - ACTOS Tablets 15mg 1 TAB
 - 1 time per day, after breakfast 18 Days

2008 05 26

- OHP(surgery)
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2008 06 09

- OHP(surgery)

2008 06 21

- OHP(surgery)

2008 07 07

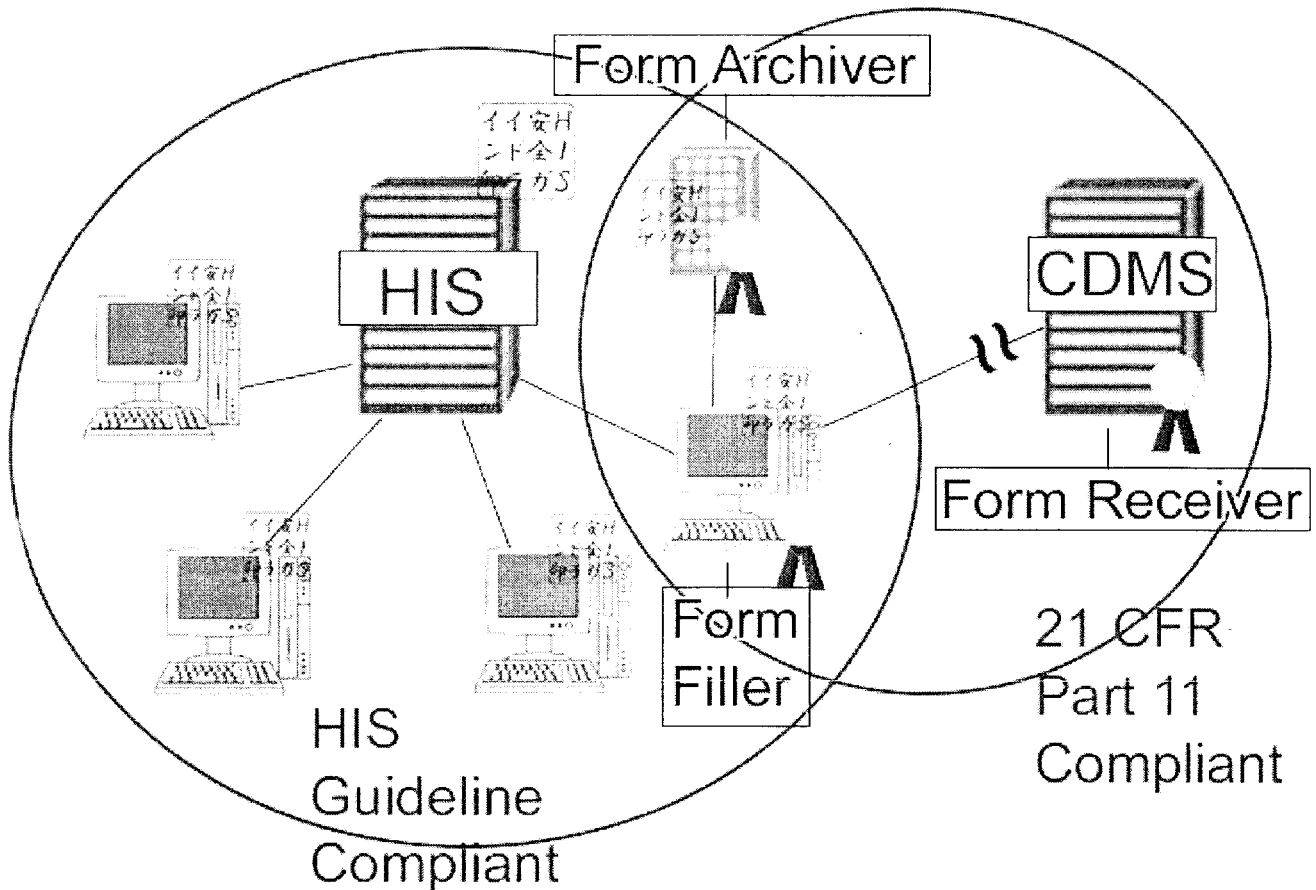
検査結果歴

	08/01	08/18	08/04	07/22	07/07	06/23	06/08
GOT(AST)	15	14	12	13	12	21	14
GPI(ALT)	10	9	9	10	10	31	9
ALP	167	147	146	167	167	125	147
LDH	136	139	149	126	149	122	139
T-Bil	0.8	0.7	0.4	0.3	0.5	0.4	0.7
Urea-N	8	12	12	8	13	16	12
Cre	0.59	0.53	0.54	0.59	0.57	0.55	0.53
T-CHO	212	175	201	212	212	178	176
Ca	8.5	8.5	8.7	8.5	8.9	9.2	8.5
CRP		2.0			0.0	2.0	
TP	6.4	5.9	5.9	6.4	6.4	5.7	5.8
Na	144	140	138	144	146	140	140
K	4.3	4.0	4.3	4.3	4.7	4.2	4.0
Cl	110	104	105	110	99	104	104
RBC	417	397	390	417	417	401	397
HGB	13.6	12.8	12.9	13.6	13.0	13.0	12.6
WBC	6.9	7.1	4.5	6.9	6.9	7.3	7.1
Ht	39.5	37.9	37.6	39.5	39.5	39.3	37.9

[Adverse Events]

Report in the following:

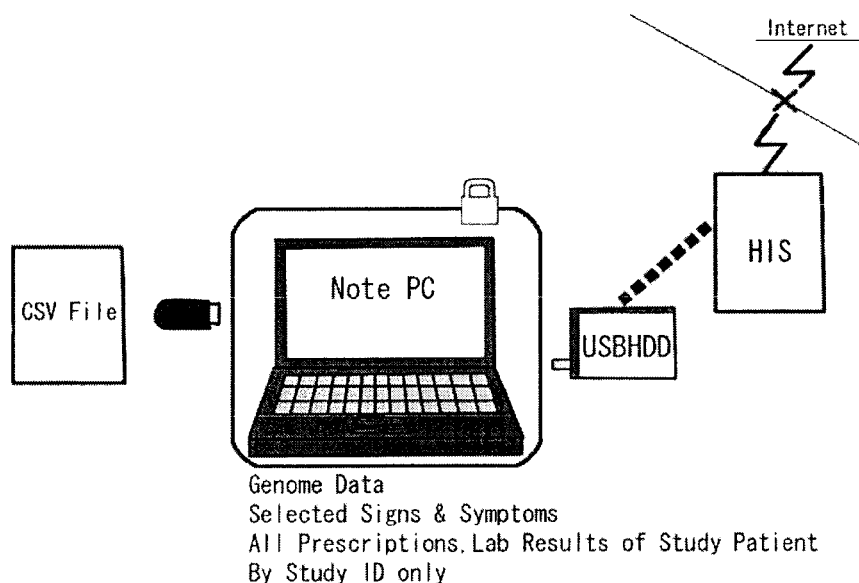
Adverse event	Severity	Disposition	Outcome	Relation to this drug
Severe Nausea	Severe	Continue	Recovery with Death	Apparently related
Not Severe Diarrhea	Not Severe	Dose decrease	Recovery with Death	Probably related
Slight Nausea	Slight	Interruption	Recovery with Death	No relation
Not Severe Nausea	Not Severe	Continue	Recovery with Death	Probably related
Slight Nausea	Slight	Interruption	Recovery with Death	No relation
Severe Nausea	Severe	Continue	Recovery with Death	Apparently related
Not Severe Diarrhea	Not Severe	Dose decrease	Recovery with Death	Probably related
Slight Nausea	Slight	Interruption	Recovery with Death	No relation
Severe Nausea	Severe	Continue	Recovery with Death	Apparently related



Put Genome data into Clinical DB, not Clinical data into Genome DB

⌘ So, you can try whatever you think of medication, lab results, to try.

⌘ Safely apart from network, other users.



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11

"CYP2C19 genotype is associated with symptomatic recurrence of GERD during maintenance therapy with low-dose lansoprazole" EJCP-2008-0363.R1

⌘ 125 patients of gastroesophageal regurgitation, their CYP2C19 genotype status, presence or absence of heartburn condition, are put into Clinical DB.

⌘ We tested the relation of genotype (rapid, intermediate and poor metabolizers), examination results, such as calcium and total protein,,,,,

⌘ Finally, we tested an example of improvement where the given dose of PPI could remain reduced 8 weeks after the start of medication. We found a significant difference between PM-RM and PM-IM (PM-RM P=0.014, PM-IM P=0.104).

⌘ This study design (effectiveness judgment by PPI and relation with Genotype) required less than one hour.

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12