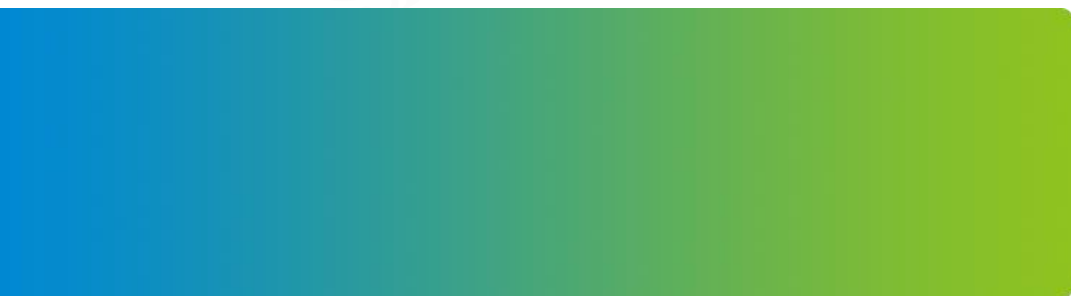


EMR structure sharing-China



31 Oct. 2019 OHDSI psychiatry WG

Haoyan Cai, SmindU

Status overview

- No platform of systematic tracking for patient.
 - Most patient prefer national/provincial top level hospital for diagnosis and back to hometown for follow up
 - Data from hospital and pharmacy are separated
 - Data in different hospital are separated
- Most hospitals have their own pharmacy and patient could buy drugs in the hospital.
- Psychiatry drugs are under strict control and some drugs are not available in the pharmacy outside of hospital.
- Except for ICD 10-CN version, no standard vocabulary. Each hospital has their own EMR system with different coding principle.
- Few national/regional registry program/platform

Hospital system

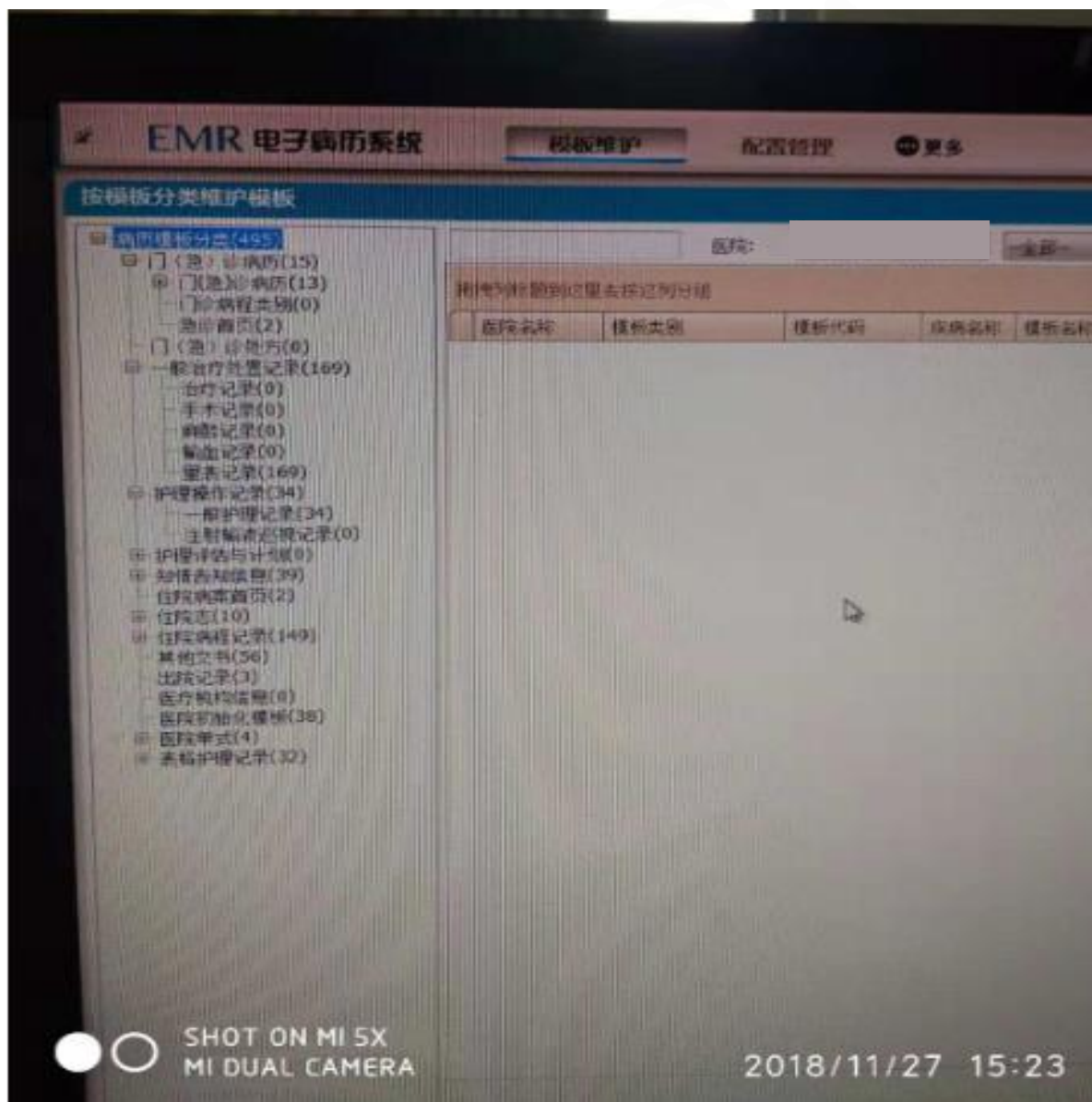
- There are several systems for different purpose in the hospital, most hospital, these systems are separated, different information from different system:
 - HIS (most are structured): cost manage system
 - EMR (most are unstructured): all medical record input by doctors
 - LIS (most are structured): lab test information including name, time, result etc.
 - PACS: for imaging, both picture and report (most are unstructured)
 - Main page of medical record (most are structured)

Hospital system → OMOP

Some information stored in ≥ 2 systems and may be different

OMOP domain	Hospital system	comments
Person	HIS	Structured
Visit occurrence	HIS	Structured
Condition occurrence	<ul style="list-style-type: none">• Main page of medical record (diagnosis)• EMR (symptom & signs)	<ul style="list-style-type: none">• Structured• unstructured
Drug exposure	HIS	Structured
Observation	EMR	Unstructured or semi-structured
Measurement	LIS	Structured
Device	No information	
Procedure	HIS-medical order	Structured or semi-structured
Cost	HIS	Structured
Death	Main page of medical record	Seldom happen (only 6 in current database)

EMR structure-content list



- Outpatient record
- Inpatient record
 - Admit note
 - Discharge not
 -
- Operation record
- Caring (nurse) record
- Transfusion record
- Scale record
-

Outpatient record

First visit

来诊者: Person who visit

主诉: Main complaint

现病史: history of present illness

既往史: 平素健康状况良好, 否认冠心病病史。否认高血压病史。否认糖尿病病史。

过敏史: 否认药物过敏史, 否认食物过敏史。

个人史: 胞 胞数 行 排行。出生情况: 出生情况, 发育: 发育, 文化程度: 教育程度, 个性: 个性, 不良嗜好: 有无嗜好。

家族史: 精神病家族史: 无。躯体病遗传史: 无。

检查: 体温 脉搏 呼吸 收缩压 舒张压。

精神检查:

初步诊断: 请点击输入诊断

处理: 请点击输入处方信息

请点击输入检验申请单

请点击输入检查申请单

请点击输入草药处方

请点击输入治疗

嘱托与建议:

疾病证明单信息

病假单建议信息

北京市重性精神疾病门诊报告卡是否上报

医师签名:

Regular visit

初步诊断: 请点击输入诊断

来诊者: 来诊者

内容: 病情: 稳定, 精神状态有改善 睡眠状况 进食情况 二便是否规则

用药情况: 用药情况

不适反应: 有无明显不适 症状名称

躯体情况: 躯体情况

查体情况(异常请描述): 查体

精神检查: 精神状态

处理: 请点击输入处方信息

请点击输入检验申请单

请点击输入检查申请单

请点击输入草药处方

请点击输入治疗

嘱托与建议:

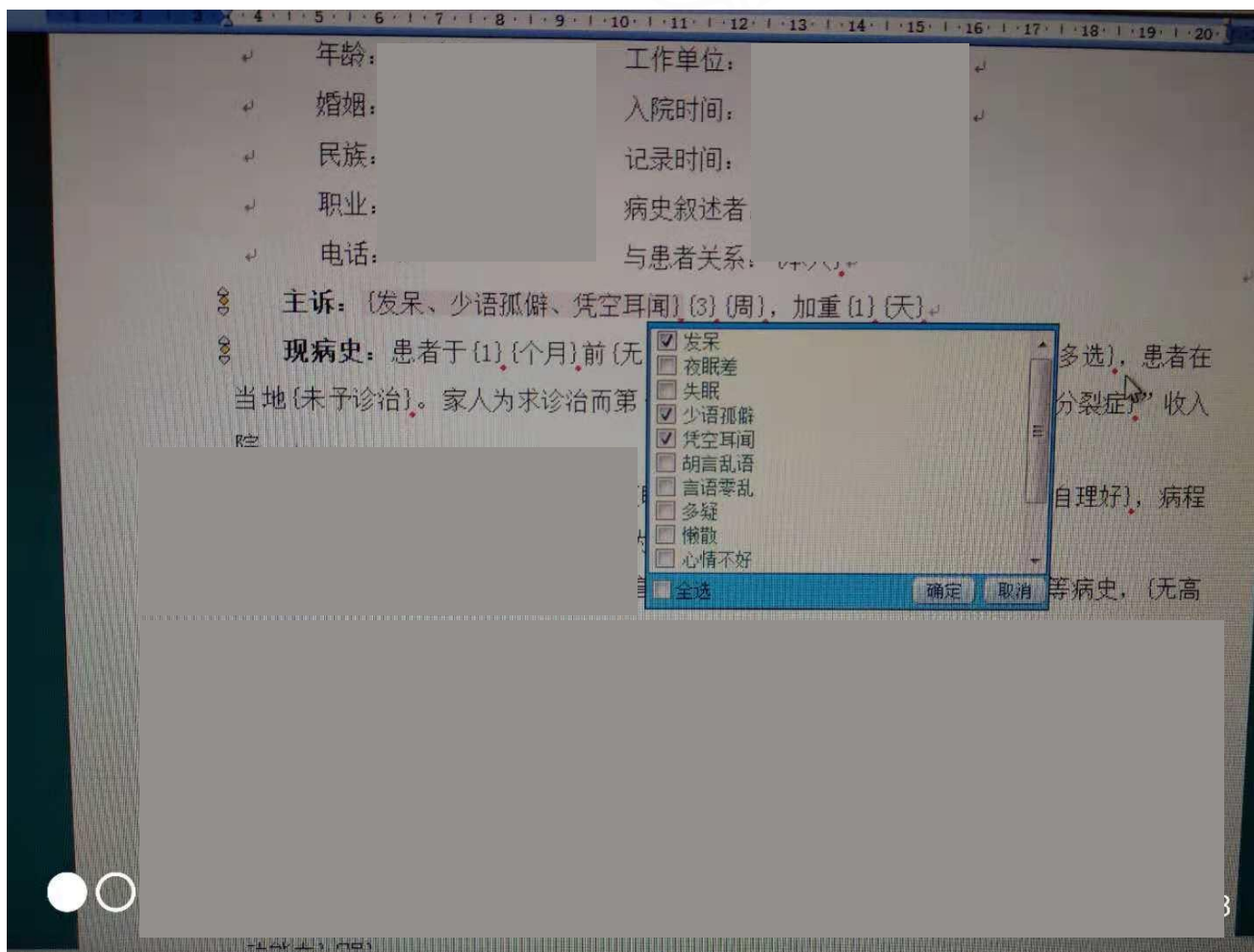
疾病证明单信息

病假单建议信息

北京市重性精神疾病门诊报告卡是否上报

医师签名:

Inpatient record-admit note



Some are structured,
but the vocabulary are
not standard

Main page of medical record

Diagnosis others
Patient information operation Cost

病案首页

临床 住院病案首页

医疗付费方式: 城镇职工基本... 第 1 次住院 病案号

患者信息 诊断信息 手术信息 其他信息 费用信息

药物过敏: 2 1.无 2.有 过敏药物: _____
血型: 6 1. A 2. B 3. AB 4. O 5. 不详 6. 其他 RH 4 1. 阴 2. 阳 3. 不详 4. 未查

科主任 _____ 主(副)任医师 _____ 主治医师 _____ 住院医师 _____
主诊医师 _____ 责任护士 _____ 进修医师 _____ 实习医师 _____
质控医师 _____ 质控护士 _____ 编码员 _____

病案质量 1 1. 甲 2. 乙 3. 丙 质控日期: 2018-11-07 10:12:49 病理号: _____

出院方式: 1 1. 医嘱离院 2. 医嘱转院, 转入医疗机构名称: _____ 4. 非医嘱离院 5. 死亡 9. 其他
3. 医嘱转社区卫生服务机构/乡镇卫生院, 转入医疗机构名称: _____

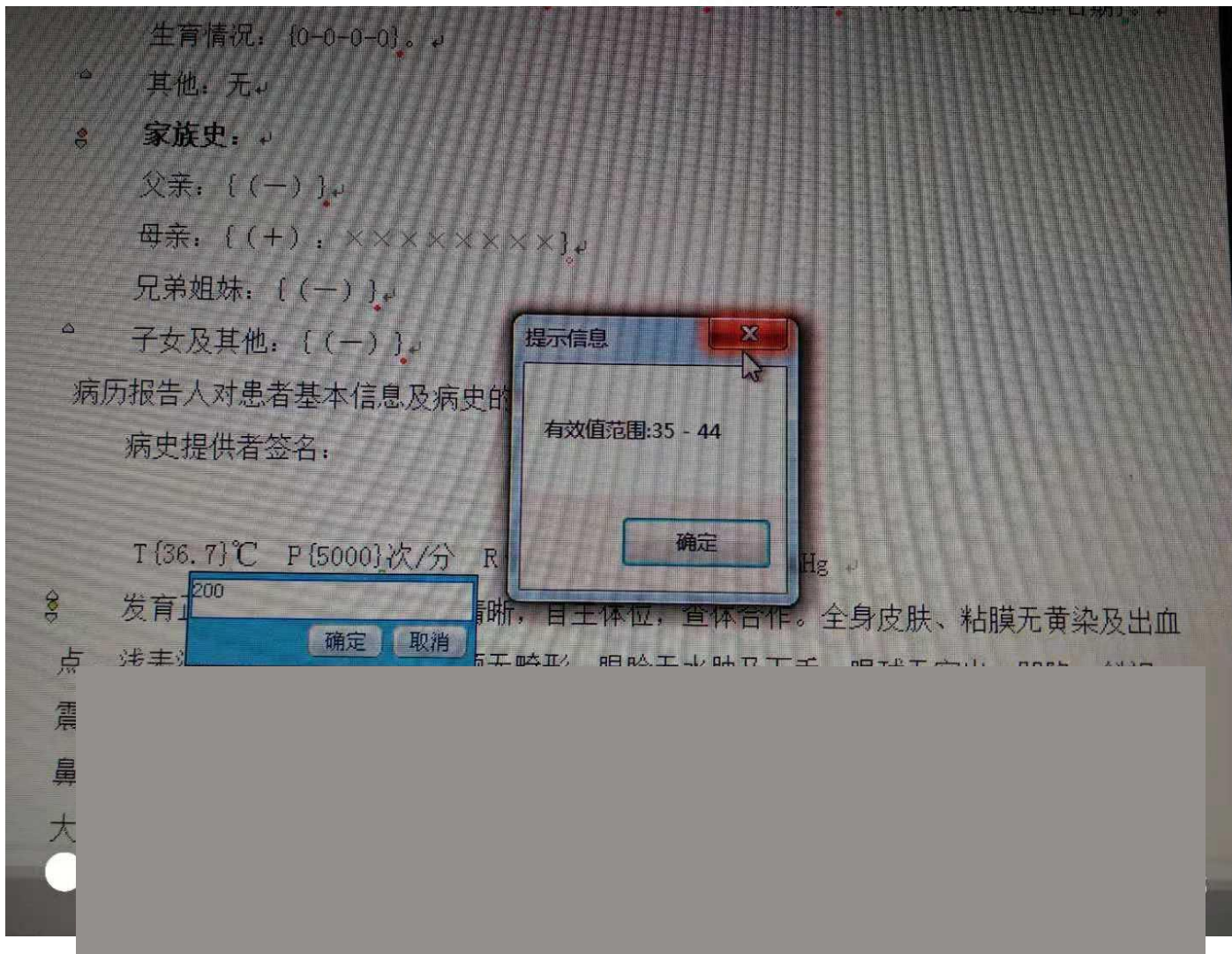
死亡患者尸检: - 1. 是 2. 否 合并症: 1 1. 是 2. 否 合并症转归: 2 1. 治愈 2. 好转 3. 未愈 4. 死亡 5. 其他
并发症: - 1. 是 2. 否 并发症转归: - 1. 治愈 2. 好转 3. 未愈 4. 死亡 5. 其他

是否有出院31天内再住院计划: 1 1. 无 2. 有, 目的: _____
昏迷时间(颅脑损伤患者) 入院前 _____ 天 _____ 小时 _____ 分钟 入院后 _____ 天 _____ 小时 _____ 分钟

临床路径: 1 是否危重: 2 1. 是 2. 否 出院情况: 2 1. 治愈 2. 好转 3. 未愈 4. 死亡 5. 其他

保存 打印

Predefined rules to ensure quality



Physical examination:

Body temperature:

effective value is 35-44