Master thesis presentation: Mining adverse events from healthcare data

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Problem description

Problem: voluntary reporting records a fraction of the adverse events

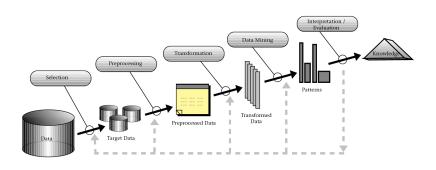
manual detection

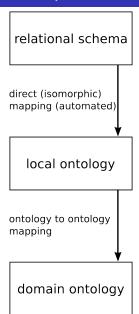
- lacks consistency
- is limited in scope
- is costly
- is driven by intuition

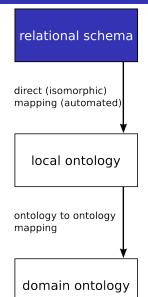
data mining

- treats all patient data uniformly
- can reason over all relevant data
- enables automation
- makes biases explicit

Knowledge discovery process







patient_id	birth_date	gender
patient_1	12-AUG-1956	М

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	me	dical_case_id	ра	atient_id	admission_date	e	discharge_date		
	me	dical_case_100	patient_1 patient_1		17-JAN-2009		19-JAN-20	09	
	me	dical_case_101			03-SEP-2009		27-SEP-20	09	
	dia	agnose_id	ı	medica	al_case_id		ICD_code		
ĺ	dia	agnose_1	medical_case_101				F48		
	dia	agnose_2	ı	medica	al_case_101	L	T85.4		

