



R in clinical practice summarizing pharmacological data

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The ward, the drugs, and the time

- inpatient service \approx 130 psychiatric patients



The problem

The ward, the drugs,
and the time
3 weeks of handmade
memory

The aim

The inspiration

Our approach

The problem



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- inpatient service \approx 130 psychiatric patients
- many stay $>$ 2 month
- some stay ($>$ 1year)



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- inpatient service \approx 130 psychiatric patients
- many stay $>$ 2 month
- some stay ($>$ 1year)
- many different drug regimen

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3 weeks of handmade memory

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Frau Herr Use R ← Pat-ID →		Alter 1		Geb. 15.0	
Vollkost <input checked="" type="checkbox"/> Diät		Allergie /		Besonderheiten	
Datum		13.02.06	14.02.	15.02.	16.02.
morgens RR/P/T		120/80 60 37°			
mittags RR/P/T		140/90 70 37°			
abends RR/P/T					
RR/P/T					
RR/P/T					
Ausgang		allein			
Abwesenheit					
Amitriptylinmg	100-0-0-200				
Risperidonmg	0-0-0-4				
L-ThyroxinTblyg	50-0-0-0				
PantoprazolTblyg	20-0-0-0				
Medikamente	medication	dosage		days	

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Medikamente	medication	dosage		days	

3 pages = 3 weeks

previous weeks in drawer

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The aim

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We needed a...

The problem
The aim
We needed a...
The inspiration
Our approach

■ ...one-page,



We needed a...

The problem
The aim
We needed a...
The inspiration
Our approach

■ ...one-page, intuitive,



We needed a...

The problem
The aim
We needed a...
The inspiration
Our approach

■ ...one-page, intuitive,
breakdown of medication



We needed a...

The problem
The aim
We needed a...
The inspiration
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■ ...one-page, intuitive,
breakdown of medication
for the complete stay!



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- Summarizing Clinical Psychiatric Data
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The inspiration



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Summarizing Clinical Psychiatric Data

Family name, Given name: South Memorial Clinic

Background: Bipolar I Disorder and adult onset diabetes. Patient first hospitalized at age 20. Recently psychotic. No substance abuse. Recurrent, but resolved depression followed. Married at age 24 to a sales representative. With lithium therapy she avoided hospitalization for nearly 12 years. Consulted our clinic after starting on lithium. RDP MD 903.02.03

Recent Notes: Looks brighter today. RDP MD 903.12.24.94. Patient decreased 50kg given in right shoulder. No change in oral medications yet. RDP MD 903.12.15.94. Still complains of "thoughts" and TV talking to her occasionally. Reports being especially worried that she has disappeared from her husband. Observed on hospital with her and husband. Initially, husband explosively argued clinic, but with discussion thinks it might help. Does not want her away from house for so long that she would not be able to do homework. Husband and patient very agreeable to Haldol decarbonyl injection. Will return to clinic in 1 week for regular appointment. RDP MD 903.11.16.94

MEASUREMENTS AND DOSAGES: Psychophysics 2, Mood 0, Discharge 7.1 mmol/L, Monophasic 32 mg, Lithium mmol/L, Olanzapine 2.5 mg, Sertraline 1.0 mg, LiCity mg, No 140 mmol/L, Risperidone 3.0 mg, Trametyprazine mg, K 3.9 mmol/L

Powsner and Tufte, 1994 and 1997



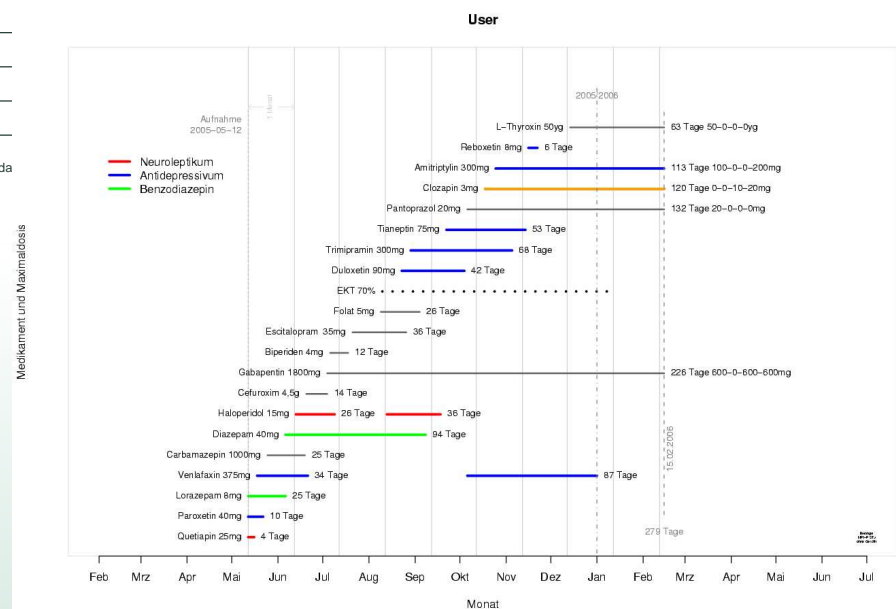
- The problem
- The aim
- The inspiration
- Our approach
- Summarizing pharmacological data
- Why R ?

Our approach



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- Why R ?

Summarizing pharmacological data





Why R ?

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 Why R ?

- almost automatic but customizable plotting



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- almost automatic but customizable plotting
- easy coding
`is.element(), as.Date()`



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- almost automatic but customizable plotting
- easy coding
`is.element(), as.Date()`
- flexible input
- and output



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