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Bloedspiegelbepalingen van antipsychotica bij patienten in twee tbs-klinieken

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Published in:
[n.n.]

Publication date:
2009

[Link to publication in Tilburg University Research Portal](#)

Citation for published version (APA):
de Blécourt, C. V., & Oei, T. I. (2009). Bloedspiegelbepalingen van antipsychotica bij patienten in twee tbs-klinieken. In [n.n.] (Vol. 51, pp. S232-S233). (Tijdschrift voor Psychiatrie; Vol. 51, No. 1). Unknown Publisher.

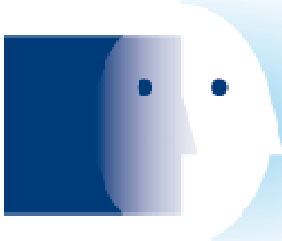
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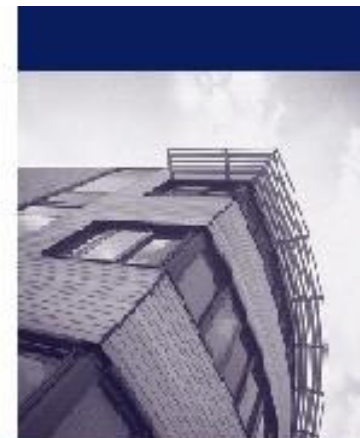
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forensisch psychiatrisch centrum
OLDENKOTTE



Bloedspiegelbepalingen van antipsychotica bij patiënten in twee TBS-klinieken

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Agenda

- **Introduction**
- **Previous experiences in General Psychiatry (1984 – 2006)**
- **Actual experiences in Forensic Psychiatry**
- **Discussion**
- **Conclusions**
- **Research proposal**

Patient 1

Male, age 36

Zuclopentixol depot, 300 mg / 2 weeks

(Maintenance dose: 200 – 600 mg / 2 - 4 weeks)

Supposed therapeutical range: 10 – 50

Value: 6

Patient 2

Male, age 38

Zuclopentixol depot, 1000 mg / 3 weeks

(Maintenance dose: 200 – 600 mg / 2 - 4 weeks)

Supposed therapeutical range: 10 – 50

Value: 13

Patient 3

Male, age 63

Zuclopentixol depot, 200 mg / 2 weeks

(Maintenance dose: 200 – 600 mg / 2 - 4 weeks)

Supposed therapeutical range: 10 – 50

Value: 8

Patient 4

Male, age 41

Zuclopentixol depot, 350 mg / 2 weeks

(Maintenance dose: 200 – 600 mg / 2 - 4 weeks)

Supposed therapeutical range: 10 – 50

Value: 11

Summary

Nr	Medication	Depot mg	Weeks	Range	Value
3	Zuclopent.	200	2	10-50	8
1	Zuclopent.	300	2	10-50	6
4	Zuclopent.	350	2	10-50	11
2	Zuclopent.	1000	3	10-50	13

Patient 4

Male, age 41

Risperidon depot, 50 mg / 2 weeks

(Maintenance dose: 25 mg / 2 weeks if oral dose is 4 mg / day)

Supposed therapeutical range: 10 – 90

Value: 33

Patient 5

Male, age 41

Risperidon depot, 50 mg / 2 weeks

(Maintenance dose: 25 mg / 2 weeks if oral dose is 4 mg / day)

Supposed therapeutical range: 10 – 90

Value: 21

Patient 6

Male, age 27

Risperidon depot, 50 mg / 2 weeks

(Maintenance dose: 25 mg / 2 weeks if oral dose is 4 mg / day)

Supposed therapeutical range: 10 – 90

Value: 20

Patient 7

Male, age 43

Risperidon depot, 62,5 mg / 2 weeks

(Maintenance dose: 25 mg / 2 weeks if oral dose is 4 mg / day)

Supposed therapeutical range: 10 – 90

Value: 36

Summary

Nr	Medication	Depot mg	Weeks	Range	Value
5	Risperidon	50	2	10-90	21
6	Risperidon	50	2	10-90	20
4	Risperidon	50	2	10-90	33
7	Risperidon	62.5	2	10-90	36

Patient 8

Male, age 24

Quetiapine, 900 mg / day

(Maintenance dose: 300 - 450 mg / day)

Supposed therapeutical range (at the time): 50 - 750

Value: 38

Patient 9

Male, age 46

Quetiapine, 800 mg / day

(Maintenance dose: 300 - 450 mg / day)

Supposed therapeutical range (at the time): 50 - 750

Value: 31

Patient 9

Male, age 46

Quetiapine, 1000 mg / day

(Maintenance dose: 300 - 450 mg / day)

Supposed therapeutical range (at the time): 50 - 750

Value: 57

Patient 10

Male, age 38

Quetiapine, 1000 mg / day

(Maintenance dose: 300 - 450 mg / day)

Supposed therapeutical range (at the time): 50 - 750

Value: 110

Summary

Nr	Medication	Depot mg	Day	Range	Value
9	Quetiapine	800		50-750	31
8	Quetiapine	900		50-750	38
9	Quetiapine	1000		50-750	57
10	Quetiapine	1000		50-750	110
16	Quetiapine	1000		50-400	37

Patient 11

Male, age 41

Olanzapine, 20 mg / day

(Maintenance dose: 5 - 20 mg / day)

Supposed therapeutical range: 20 - 50

Value: 13

Patient 12

Male, age 25

Risperidon, 9 mg / day

(Maintenance dose: 4 - 8 mg / day)

Supposed therapeutical range: 10 - 90

Value: 83

Patient 13

Male, age 26

Aripiprazole, 15 mg / day

(Maintenance dose: 15 mg / day)

Supposed therapeutical range: 100 - 500

Value: 98

Patient 14

Male, age 30

Aripiprazole , 15 mg / day

(Maintenance dose: 15 mg / day)

Supposed therapeutical range: 100 - 500

Value: 187

Patient 15

Female, age 37 (outdoor patient)

Quetiapine , 1000 mg / day

(Maintenance dose: 300 - 450 mg / day)

Supposed therapeutical range: 50 - 400

Value: 37

Patient 16

Female, age 28

Haloperidol, 5 mg / day

(Maintenance dose: 4 - 10 mg / day)

Supposed therapeutical range: 5 - 15

Value: 1

Patient 16

Female, age 28

Haloperidol, 15 mg / day

(Maintenance dose: 4 - 10 mg / day)

Supposed therapeutical range: 5 - 15

Value: 6,9

Patient 17

Male, age 29

Haloperidol, 40 mg / day

(Maintenance dose: 4 - 10 mg / day)

Supposed therapeutical range: 5 - 15

Value: 13

Patient 18

Male, age 34

Flupentixol depot, 30 mg / 3 weeks

(Maintenance dose: 20 - 40 mg / 2 - 4 weeks)

Supposed therapeutical range: 1 - 20

Value: 2,6

Patient 19

Female, age 29

Flupentixol depot, 40 mg / 2 weeks

(Maintenance dose: 20 - 40 mg / 2 - 4 weeks)

Supposed therapeutical range: 1 - 20

Value: 2,0

Patient 20

Male, age 33

Haloperidol depot, 100 mg / 4 weeks

(Maintenance dose: 50 - 150 mg / 4 weeks)

Value: not measurable

Discussion

- Selection bias
- Informed consent essential
- Plasma monitoring favours doctor patient relationship

Conclusions 1

Ultra rapid metabolism is excluded pharmacogenetically.

Metabolism is on the rapid side of the Gaussian distribution.

High incidence of side effects, especially of akathisia.

“ Two way knock-out punch to Therapy”.

Conclusions 2

Take caution in prescribing Aripiprazole in violent patients

Risperidon consta in fixed dose does not yield reproducible plasma values in all patients

Conclusions 3

Results for Quetiapine might stimulate research to genduplication of 2C19, or a variant mutation associated with increased metabolic activity such as the 2C19*17 mutation (omeprazol) (TOUW et al.,2008)

Conclusions 4

- Rapid metabolism
- Acathisia
- Violent behaviour

If this Triad would be recognized already in the General Mental Hospital:

Might Prevention then be possible?

Research proposal

Form an international group to focuss on this subject.

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