

# The natural course of activities and participation after mild traumatic brain injury in children and adolescents



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# Disclosure of conflict of interest

We have nothing to declare for this study



# Background



Full  
recovery



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# Background



Full  
recovery



Problems with Activities and Participation?



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## In this study:



Mild TBI



Settings



Domains



Perspectives



Longitudinal



# Research questions



Course of activities and participation in **different settings**

Comparison **perspective** caregiver vs. child



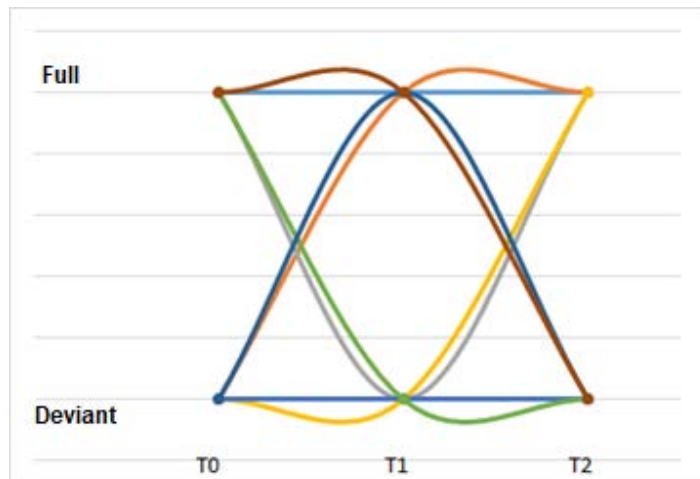
Course of activities and participation in **several activity domains**

Relation **different settings** with **several activity domains**



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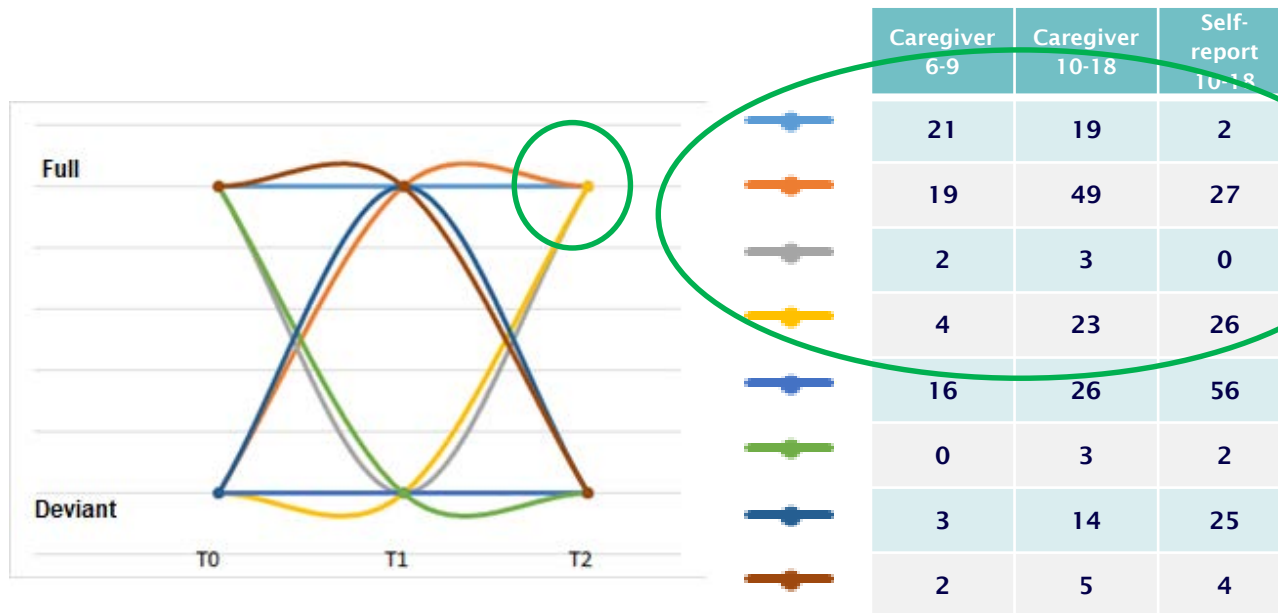
## Course of activities and participation in **different settings**



Caregiver 6-9	Caregiver 10-18	Self-report 10-18
21	19	2
19	49	27
2	3	0
4	23	26
16	26	56
0	3	2
3	14	25
2	5	4

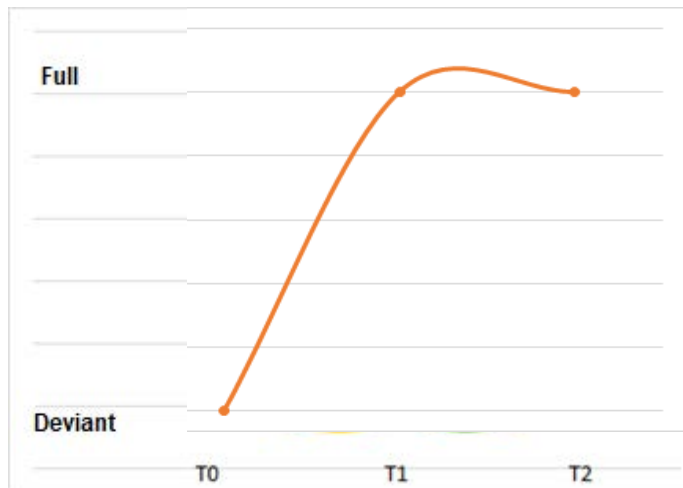


## Course of activities and participation in **different settings**





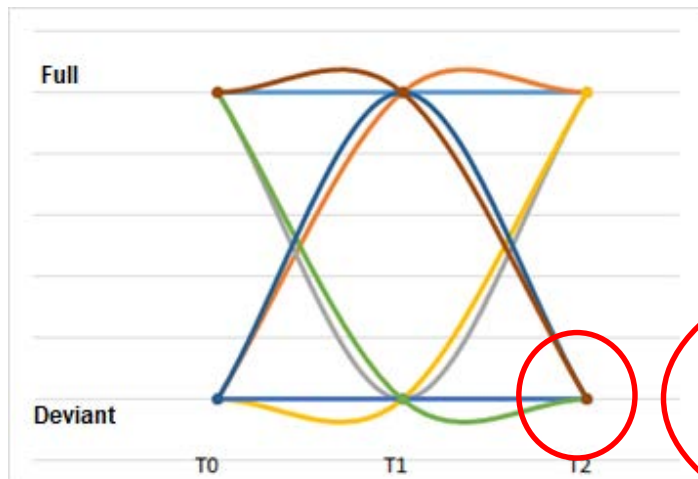
## Course of activities and participation in **different settings**



Caregiver 6-9	Caregiver 10-18	Self-report 10-18
21	19	2
19	49	27
2	3	0
4	23	26
16	26	56
0	3	2
3	14	25
2	5	4



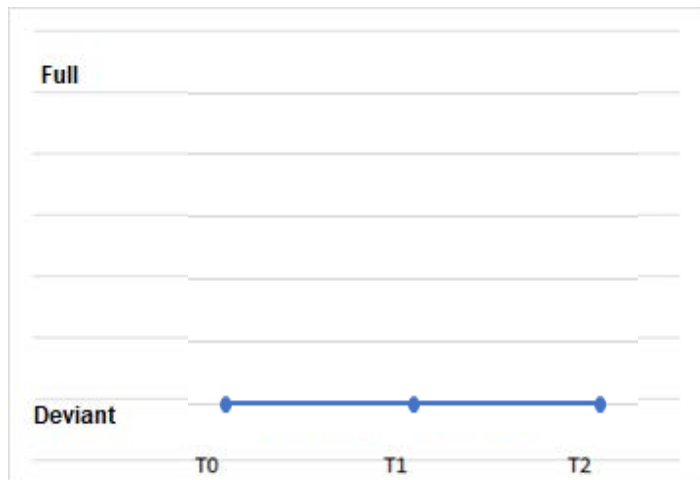
## Course of activities and participation in **different settings**



	Caregiver 6-9	Caregiver 10-18	Self-report 10-18
Blue line (top)	21	19	2
Orange line	19	49	27
Grey line	2	3	0
Yellow line	4	23	26
Blue line (middle)	16	26	56
Green line	0	3	2
Blue line (bottom)	3	14	25
Brown line	2	5	4



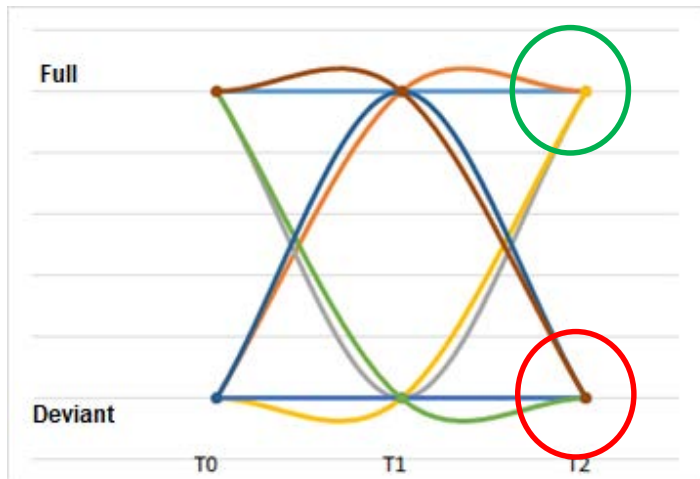
## Course of activities and participation in **different settings**



Caregiver 6-9	Caregiver 10-18	Self-report 10-18
21	19	2
19	49	27
2	3	0
4	23	26
16	26	56
0	3	2
3	14	25
2	5	4



## Comparison **perspective** caregiver vs. child



Caregiver 6-9	Caregiver 10-18	Self-report 10-18
21	67 %	2
19		27
2		0
4		26
16	26	62 %
0	3	
3	14	
2	5	

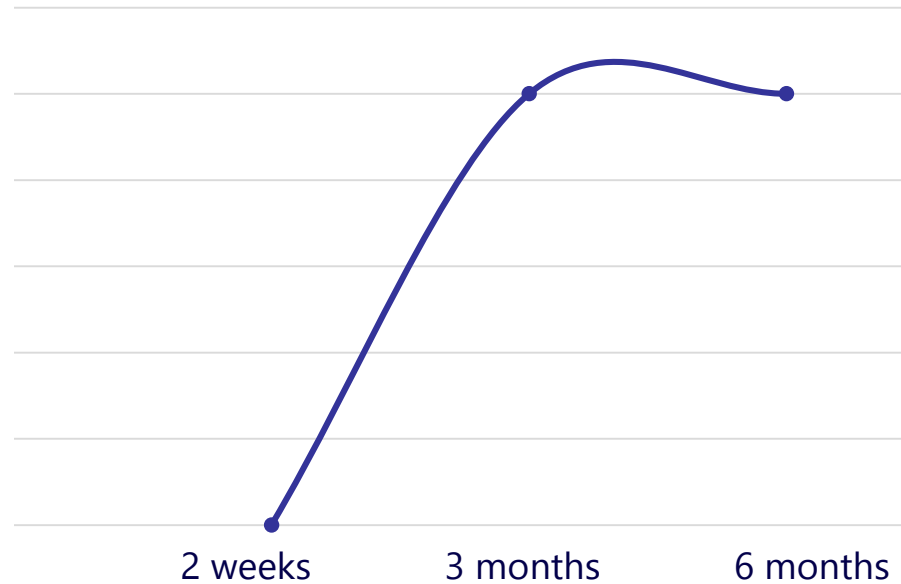


## Course of activities and participation in **several activity domains**

CAPE Domain	RMA		
	df <sub>M</sub>	F	p
Total	1.89	226.59	<.000
Recreational	1.99	59.25	<.000
Active physical	1.87	90.09	<.000
Social	1.86	180.26	<.000
Skill-based	1.97	65.60	<.000
Self-improvement	1.98	42.59	<.000



## Course of activities and participation in **several activity domains**



## Relation different settings with several activity domains



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# Take home messages



- ✓ Ceiling effect for CASP scores – consider dichotomized data
- ✓ Most recovery in first 3 months, but all courses possible
- ✓ 33 – 62 % deviant on activities and participation 6 months post-mTBI
- ✓ Importance of perspective: caregiver vs. child
- ✓ Activities and participation in different settings  $\neq$  participation within several activity domains
- ✓ Preliminary results– final results expected in the beginning of 2019





# Thank you for your attention!



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drs. L. Bosma; dr. C.E. Catsman; & Prof. dr. C.M. van Heugten



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