

: interventions, please!

COGITATE intervention (CPPopt in TBI)

Marcel Aries

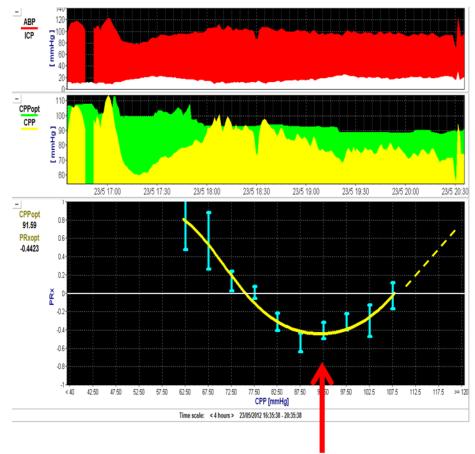
COGITATE investigators





Disclosures

None



CPPopt automated





The 'ideal' world







The 'ideal' neurocritical care unit

Imaging

Physiology



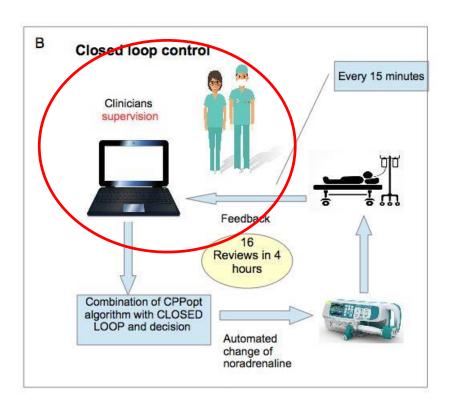






Still dreaming....

Early 2019



2022

- ICP/CPP monitoring....
- Robust research evidence
 - PHASE II
 - PHASE III
- Automated models
 - Target calculations
 - Continuous targets
 - Continuous adjustments
- Money
- 'CPPopt workshop'

Thanks to AnnaLisa Liberti





Autoregulation guided interventions (2017)

Model

CPP ICP

Management



or







'Human'



'Software'



Feasibility study (2018)

COGITATE

Interaction (aim)

Third Patient Enrolled in Multi-Center CPPopt Feasibility
Study!

www.cppopt.org









2018...pressure on



Part of bedside management!!



Practical issues

- What to present?
- Randomisation option
- Alerts?
- Safety limits?
- Disconnections?
- Adding other monitoring
- Different centres
 - Different set-ups
 - Different computers (',' or '.')
- Switch obs → intervent
- Manual/support















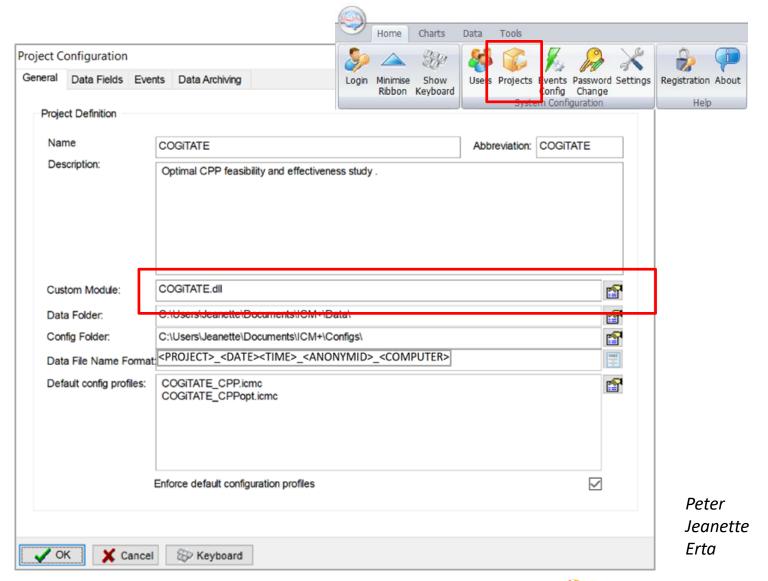








ICM+: Study (intervention) module (I)





ICM+: study module settings(II)

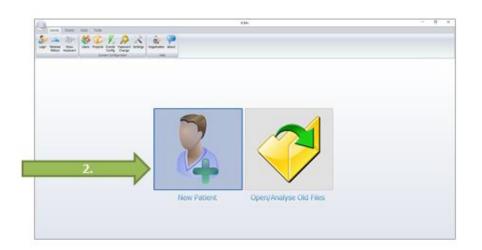
#ReviewDailyTimePoints=10:00, 14:00, 18:00, 22:00, 02:00, 06:00 FixedReviewIntervalIfDailyTimePointsNotSetInHours=6 # Rounding of the first start time, used only when no daily points provided FixedReviewIntervalStartTimeRoundingInMin=0.017 # Period till the first review, used only when no daily points provided FirstReviewTimeInHours=2.0 # Minimal period before the first CPPopt review can be triggered after start FirstCPPOptReviewTimeInHours=2.0 # Period after which the flashing alert will reappear in the review window AlertpausePeriodInMin=0.33 Reviews # Forms autoclose time AutoCloseTimeInSec=240 ReviewTimerPrecisionInMin=0.20 # Auto close time period of the open review forms, and thus refresh of the target in the CPPopt treatment arm AutoReviewRestartTimeInMin=10 # Absolute value of allowed difference in target, since the time the review target was TargetChangeTolerance=5 # Minimal period allowed between two consecutive reviews (the next one will be skipped if within this period of the last) ReviewRefractoryPeriodInMin=30 Study help infofile=COGITATE helpinfo.txt Study Protocol=COGiTATE PROTOCOL v5.4.pdf ICM+ SOP=COGITATE ICMSOF.pdf TBI background module=COGiTATE TBI background module.pdf Documentation Study module-COGiTATE study module.pptm FAQ=COGITATE FAQ.pdf [SafeRanges] CPPOpt=50,100

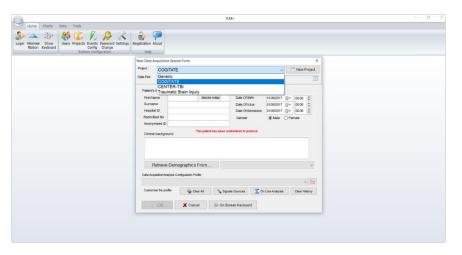
ReviewStatsCalculationPeriodInHours=0.017

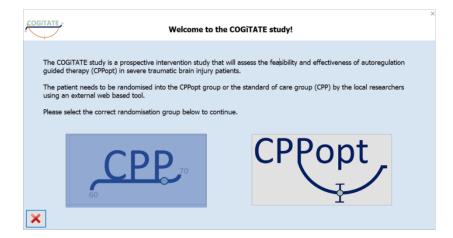
Dynamics

'Safe' CPP ranges





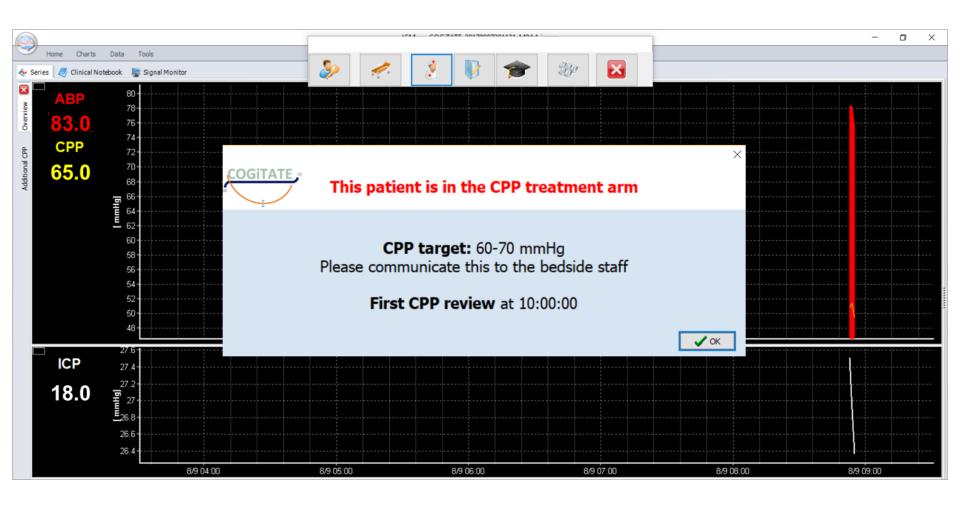






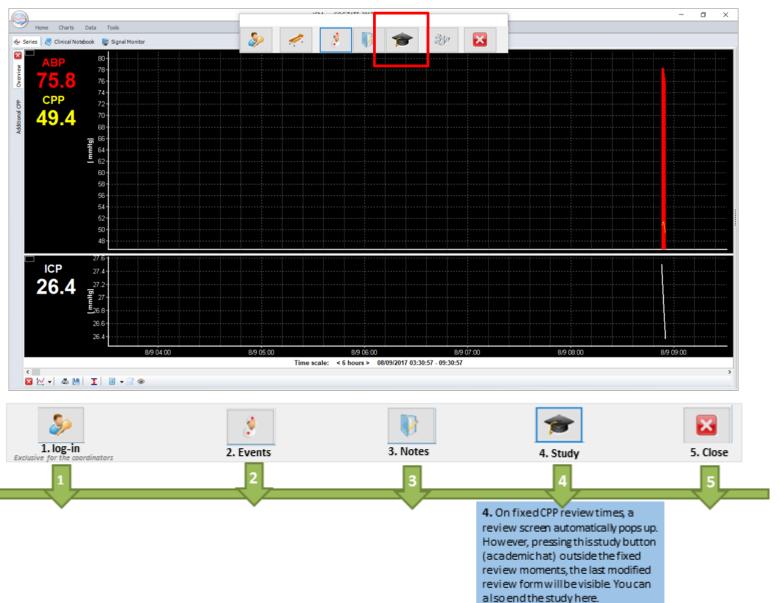




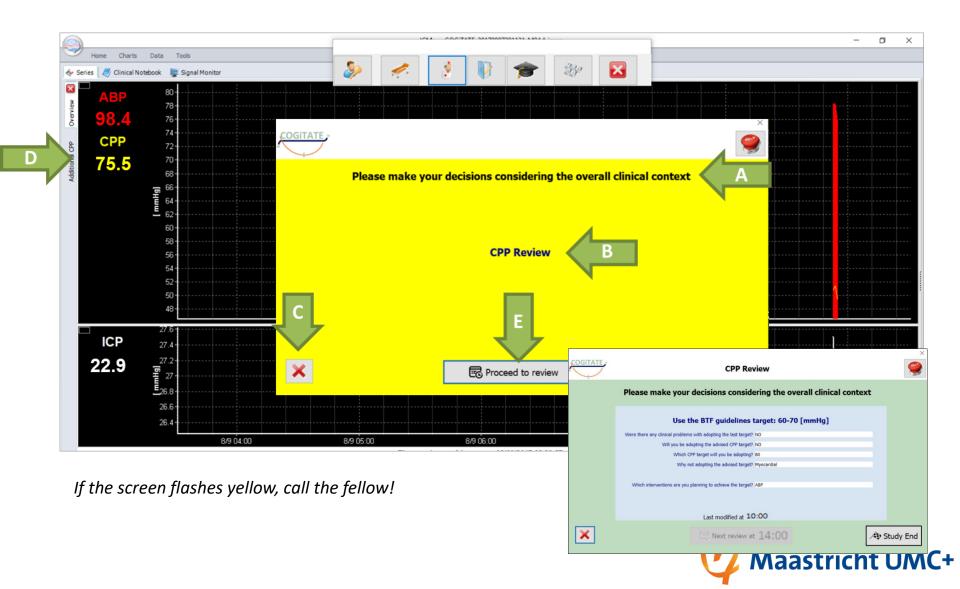






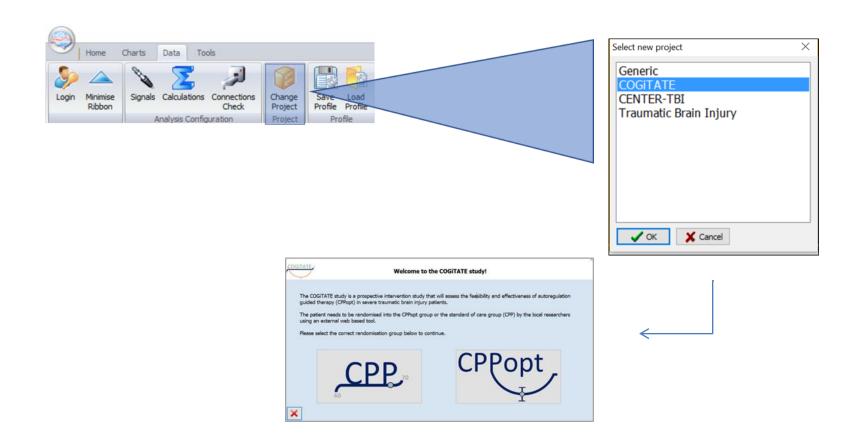








New ICM+ button: change project

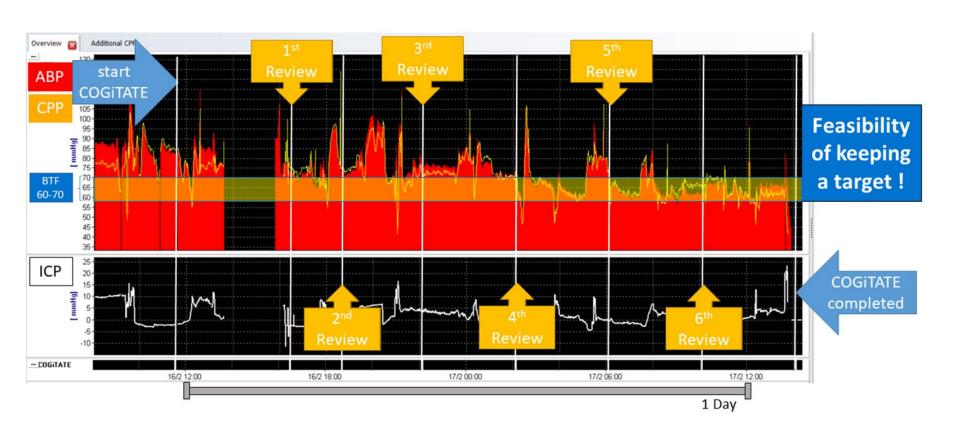


Observational → Intervention





Results (n=15)



Provided by E Begiri





Conclusion

COGITATE



TEAMWORK







Thank you

- Please follow us
 - www.cppopt.org
 - @cppopt.org

COGITATE investigators

- Cambridge
- Leuven
- Maastricht



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