



ÅPENT MØTE: 7. oktober 2014

Foredrag av:

Prof. Adrian Owen

Brain and Mind Institute,
The University of Western Ontario, Canada

Using Functional Neuroimaging to Detect Awareness After Serious Brain Injury

Tirsdag, 7. oktober, kl.18.00-20.00

i **Det Norske Videnskaps-Akademi**, Drammensveien 78, 0271 Oslo.

Programme:

- 18.00 – 18.05 Opening by **Nils Chr. Stenseth** President of *The Norwegian Academy of Science and Letters*
- 18.05– 18.10 Introduction by **Johan F. Storm**, Neurophysiology, University of Oslo
- 18.10– 19.00 **Lecture by Adrian Owen**
- 19.00– 19.10 10 minutes break
- 19.10– 20.10 Panel discussion (A.Owen, M. Løvstad, O. Gjelsvik, JF Storm) and questions from the audience

Dr Adrian Owen is *the Canada Excellence Research Chair in Cognitive Neuroscience and Imaging* at *The Brain and Mind Institute*, Western University, Canada.

His 2006 paper in the journal *Science* demonstrated that functional neuroimaging could be used to detect awareness in a patient who was incapable of generating any recognized behavioural response and appeared to be in a vegetative state.

Vitenskapen har ennå ikke funnet noen metode til å «måle» om en person **er bevisst eller ikke**. Dette medfører store medisinske og etiske problemer. For eksempel, etter alvorlig hjerneskade, kan noen pasienter våkne delvis opp fra koma og åpner øynene, men kan ikke kommunisere. Noen er tilsynelatende bevisstløse i «vegetativ tilstand» i måneder eller år, men 10-30% av dem har likevel bevissthet.

Dr. Adrian Owen's work combines structural and functional neuroimaging with neuropsychological studies of brain-injured patients. His work, reported in the journals *Science* (2006), *The New England Journal of Medicine* (2010), *The Lancet* (2011), *PNAS* (2014) etc., has shown that functional neuroimaging can reveal conscious awareness in some patients who appear to be entirely vegetative, and can even allow some of these individuals to communicate their thoughts and wishes to the outside world. These findings have attracted widespread media attention on TV, radio, in print and online and have been the subject of several TV and radio documentaries. Since 1990, Dr Owen has published over 200 articles in scientific journals and books. - See more at: <http://www.gairdner.org/content/adrian-m-owen>

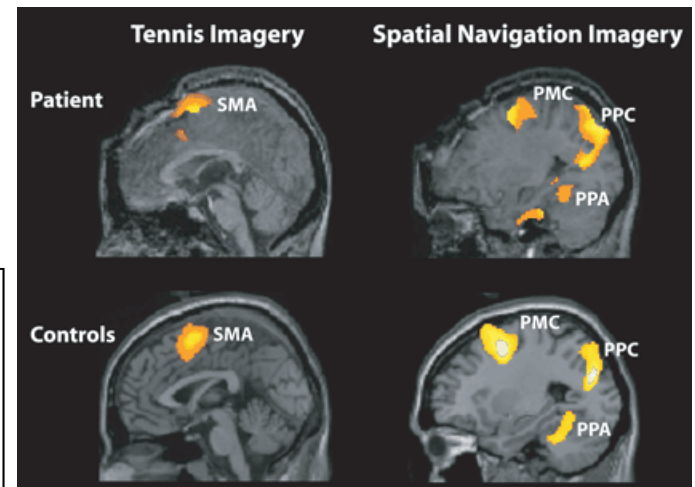


Figure from: **Owen et al. (2006)**
Detecting Awareness in the Vegetative State,
Science vol. 313. page 1402

Welcome!

Johan F. Storm,