

Service Model

The service model for the actibelt in a clinical trial setting is comparable to central lab services or applications like ABPM, Holter or Resting ECG. A typical offer would consist of four components:

1. actibelt® Hardware
2. Webbased software platform
3. Initial setup, training and support
4. Analysis and clinical validation

The hardware (1) is offered either for purchase or for loan on a monthly basis. It consists of the actibelt® device and accessories in accordance with the usage environment (e.g. casual or sport belts, belts in different lengths and colors). Since the actibelt® works in a 'blinded' mode, specialised software (2) is needed to extract the data from the actibelt® device, to track, store and annoate this data and finally to report the analysis results over a web portal. The set-up (3) of this software and the necessary site personnel training will be charged. Trained site personnel is envisaged to train the trial participants in the use of the actibelt®.

A typical scenario would be to wear the belt for one week before every study visit and to return the actibelt® and the data during the site visit. Once the data are uploaded and stored in the central database, the standardized analysis (4) as required by the respective clinical trial protocol will be conducted and the results will be validated and interpreted by an expert reader. Finally, the results will be delivered to the clinical trial sponsor in electronical and human readable format for further processing.

actibelt® - Related Publications

- Harner N., Thaler K., Daumer M.: "Concept and first results for an individualized calibration of movement detection", Biomedizinische Technik/ Biomedical Engineering, accepted
- Daumer M., Thaler K., Kruis E., Feneberg W., Staude G., Scholz M.: "Steps towards a miniaturized, robust and autonomous measurement device for the long-term monitoring of the activity of patients – actibelt®." Biomedizinische Technik/Biomedical Engineering 52: 149-55, 2007
- Kreuzer G., Daumer M.: Machbarkeitsstudie zur Aktivitätsüberwachung von Astronauten unter partieller Gravitation mit einem 3D-Accelerometer - actibelt®. Automed 2007, München, 19./20. Oct. 2007
- Tintoré M., Hagstromer M., Wicklein EM., Daumer M., Penner IK., Sjostrom M.: "The BEGIN Study: Assessment of physical activity, fatigue and health-related quality of life in the early stages of multiple sclerosis". ECTRIMS 2007, Prague, 11.-14. Oct. 2007
- Rashid A., Schlüfter F., Holtmann C., Kunze C., Thaler K., Daumer M., Schlesinger S., Griewing B.: "Usage of Accelerometers in the Home Care for multiple sclerosis patients". Accepted for the European Conference on eHealth 2007 in cooperation with the FZI Karlsruhe (Research Center for Information Technologies).
- Hagstromer M., Sjostrom M., Wicklein EM., Daumer M., Penner IK., Tintoré M.: "The BEGIN Study: Assessment of physical activity, fatigue and health-related quality of life in the early stages of multiple sclerosis". EFNS 2007, Brussels, 25.-28. Aug. 2007
- Rietberg et al.: "Exercise therapy for Multiple Sclerosis". Cochrane Database Syst Review 2005 Jan 25 (1)

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