



Bachelor's thesis as a research oriented development task
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Outline of the presentation

- 1) Basis for the theses
- 2) Focus of the theses
- 3) RD-strategies used
- 4) RD-strategies and competencies



Kalvosarjan tekijän nimi

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University Education in Finland

Polytechnics (Universities of Applied Sciences) train professionals for labour market needs and conduct such research and development, which supports education and promotes regional development.

The mission of universities is to conduct scientific research and provide undergraduate and postgraduate education based on it.



Kalvosarjan tekijän nimi

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Helsinki Metropolia

Research and development (RD) means development of new or improvement of existing products, services, and methods

In the new strategy conventional RD is expressed as *DIR* – development, innovation, research



Kalvosarjan tekijän nimi

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The Faculty of Welfare and Human Functioning

The emphasis is on research oriented development
Theses are in nature research oriented development **tasks**.

In practice the theses are conducted in close co-operation with partners from working life, utilizing literature, and applying research and development methods.



Kalvosarjan tekijän nimi

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DP of Osteopathy

So far, we have done outlines for RD strategy



Theses

At the degree programme in Osteopathy the topics for the theses are in the first place chosen on the basis of student's interests, and not of a partner's / patient's interests.

However, since close co-operation with partners from working life and with patients is highly valued, students plan and organize co-operation during their thesis

Therefore, we found it interesting to describe and analyse **the focus**, and **RD strategies** applied in the theses produced so far.



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This was done with the help of two fourfold tables: one of them analyses the focus with two dimensions:

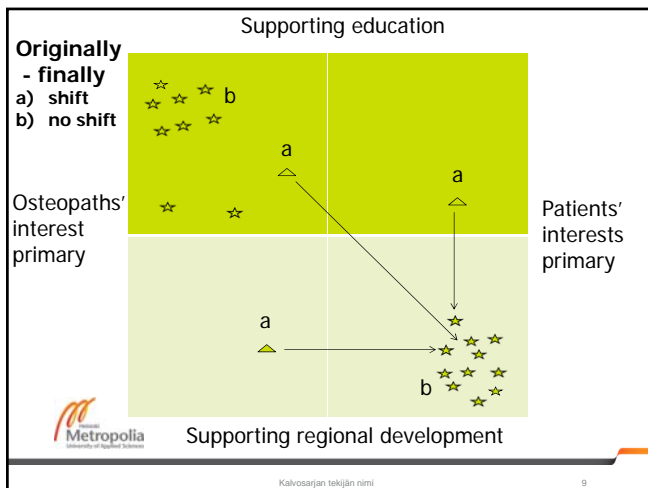
- 1) supporting education - regional development,
- 2) 2) osteopaths' interest primary - patients' interests primary.

Regional development - products, services, and methods



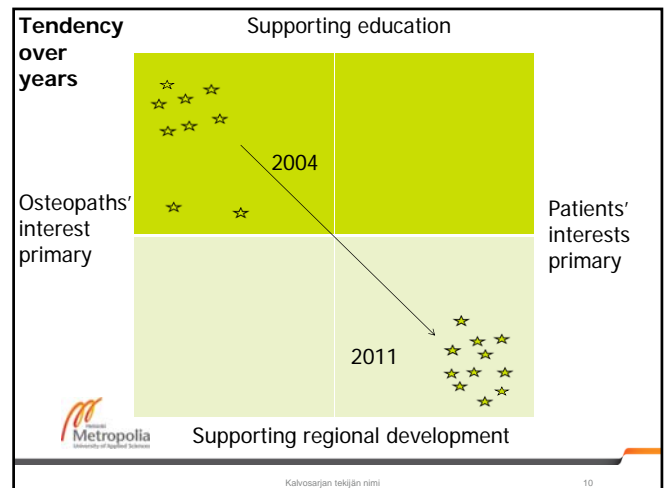
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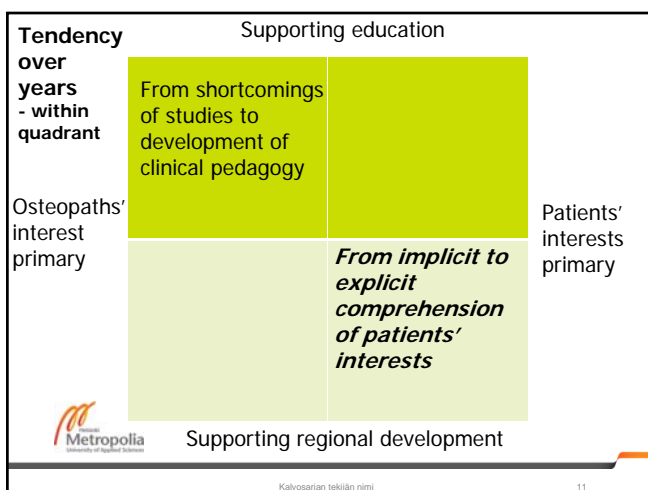
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The second fourfold table analyses RD-strategies with working life on the following dimensions:

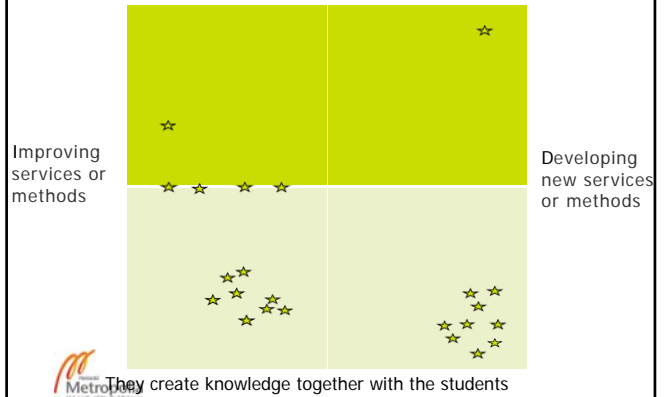
- 1) professionals and patients are seen as sources of information and/ or informed about osteopathy – they create knowledge together with the students,
- 2) improving – developing new services or methods.



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Professionals and patients: sources of information / informed

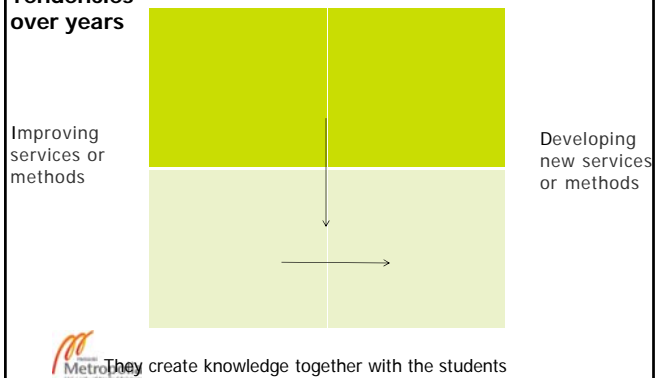


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Professionals and patients: sources of information / informed

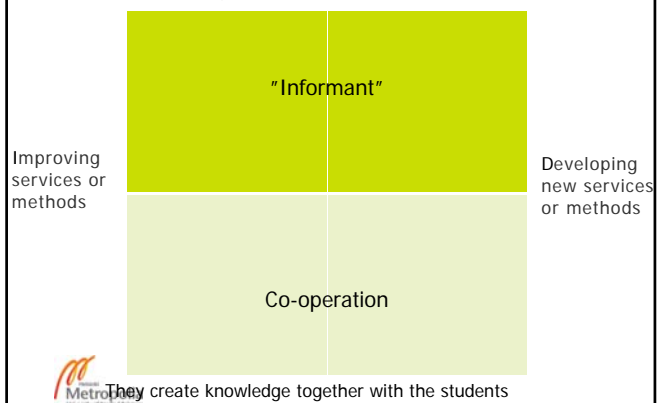
Tendencies over years



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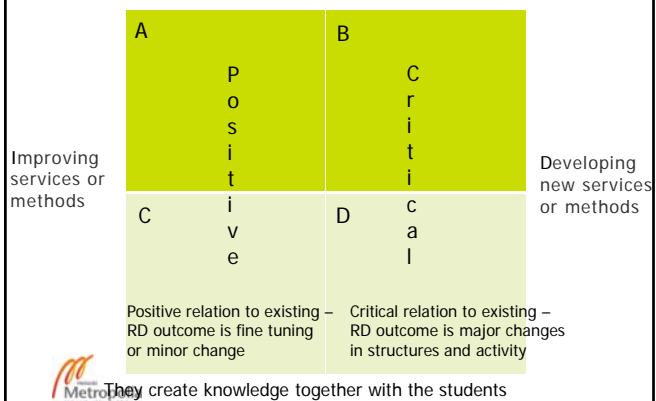
Professionals and patients: sources of information / informed



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Professionals and patients: sources of information / informed



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On the basis of this analysis the student`s competence in research and development strategies is discussed with respect to the focus.

Competence

- attitude
- skill
- knowledge

Positive

- relatively easy for students

Critical

- students are critical of how education is organized, of teachers, and of the status osteopathy has in the legislation
- why are the thesis not more critical? Why do they hide their enthusiasm?
- what prevents it? Teachers? EBP?
- what enhances it?

"Informant"

- students are almost too skilfull in this and they tend to apply patient interview method universally in their thesis

Co-operation

- students have difficulties in organizing co-operation in a productive way
- how co-operation is valued?

Theses 2004-2012

A, B

Piha Selma, Saarela Paula, Särkkä Terhi. Ground work for the classification of services in osteopathy. 2006.
 Aho Aino, Ruuskanen Heidi. Examining Passive Movements in Osteopathy. 2004.
 Hakola Kirsi, Leikas Anna. Referred pain of visceral organs, study material for students of osteopathy. 2004.
 Lindroos Annukka, Toivola Mirka. Developing a Prediagnostic Inquiry Form for Osteopathic Diagnosis. 2004.
 Forsman Kim, Lauronen Rami. Guide to the examination of the peripheral nervous system dysfunction and differential diagnosis. 2004.
 Grane Sami, Ötönen Juho. Website on Osteopathy in Finland. 2004.
 Sorsa Kirsi. Muscle Tone as a Concept and its Manifestations in Practice. 2004.
 Kurvinen Miia, Majala Lasse, Pöllänen Vertti. Reproducibility and Validity Studies and Seated Flexion Test. 2006.

C, D

Manninen Susanna, Suojanen Leena. Benefits of Co-operation for Osteopaths and Their Patients – Experiences of Osteopathy Graduates. 2011.
 Hakasaari Sari, Heinola Maria, Sario Riikka. Manipulative Impact on the Flexibility of the Thoracic Pain – A Case Study. 2011.
 Blomqvist Jonna, Koivisto Tarja, Suomalainen Kari. Effects of manual osteopathic treatment on symptoms of masticatory system dysfunction. 2006.
 Haase Simo, Rinne Sandra, Sewón Eva. Treating Carpal Tunnel Syndrome with Mobilization and Wrist Bracing. 2004.
 Kuusela Pirita, Mankinen Johanna, Oravainen Anna. Children's Osteopathy. 2010.


C, D

Karvinen Minna, Rovander Elina. Effect of Two Different Osteopathic Treatments on Lumbar Spine Mobility in Icehockey Players. 2004.
 Helaakoski Tanja, Rantanen Susanna. Effects of the osteopathic spine manipulation registered on the electrical activity of the paraspinal muscles measured by surface EMG. 2004.
 Kiesiläinen Sampo, Panu Marko, Pohjonen Markus. The Effects of Thoracic Spine Dysfunctions on the Shoulder in the Throwing Athlete. 2006.
 Heinämäki Mika, Kanerva Ari-Pekka, Malinen Tero. The effectiveness of osteopathic manipulative treatment in neck and shoulder related pain conditions - evaluated with NDI questionnaire. 2006.
 Viikari Heli, Nivala Samuli. An Osteopathic Point of view to Migraine – A Case Study. 2010.
 Aalto Jutta, Levä Eero. Osteopathic Treatment of a Whiplash Patient. 2011.
 Jokinen Pia, Purolinna Päivi, Ukkonen Niina. The Treatment of Patients with Rheumatoid Arthritis – The Subjective Experience of a Patient. 2011.
 Dorrestijn Jenni, Korhonen Minni, Palevaara Eero. Osteopathic treatment of a patient with asthma. 2011.
 Hakanto Aleks, Karhunen Lassi, Rauvala Eemeli. Examination, Guidance and Osteopathic Treatment of Patients with Sleep Disorders. 2011.
 Halonen Henna-Maria. Osteopathic View on Traumas. 2011.
 Kaatra Santeri, Vänni Teemu. Patient Expectations – What Do Patients Expect from Osteopathic Treatment? 2010.
 Kääntä Kari, Tuhkanen Aleks. Osteopaths' View towards Patient Guidance. 2010.
 Väänänen Jouni. Development of Documentation Practice. Osteopathic Clinical Reasoning in Record Keeping. 2012.

Literature

Habermas, Jürgen

Rantanen Teemu, Toikko Timo. Tutkimuksellinen kehittämistoiminta: näkökulmia kehittämisprosessiin, osallistumiseen ja tiedontuotantoon. Tampere University, 2009.
 Sipari Salla, Mäkinen Elisa, Paalasmaa Pekka: Yhteiskehittelyllä näkymää kuntoutuksen käytäntöihin. Kuntoutus 3:2011.
 Sipari Salla, Mäkinen Elisa, Paalasmaa Pekka:
 Yhdessä rakentuva kuntoutusasiantuntijuus. Fysioterapia, 5:2010



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