

# Handicraft classes for colorectal cancer patients with chemotherapy-induced neuropathy: improving neuropathic symptoms in hands through exercising the hand muscles

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<b>Registration date</b> 31/07/2018	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 30/07/2018	<b>Condition category</b> Cancer	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Chemotherapy-induced peripheral neuropathy (CIPN) is one of the common reasons that colorectal cancer patients cannot maintain their routine chemotherapy schedules. CIPN involves pain, numbness, tingling and sensitivity to cold in the hands and feet and is often very painful and stressful. Some medications are used for pain relief, but they are often not effective. As a result, there has been renewed interest in alternative therapies that stimulate the hand muscles, such as exercise or massage to relieve the neuropathic symptoms.

This study aims to look at the effectiveness of a handicraft program as rehabilitation for colorectal cancer patients with CIPN, which involves basic craftwork to encourage the use of the minor muscles of the hands to make and decorate handicrafts.

### Who can participate?

Adults with colorectal cancer who received chemotherapy

### What does the study involve?

This rehabilitation program comes in the form of the handicraft class, which involves decorating crafts such as a hand mirror, a business card holder, a table clock, and a picture frame with lacquerware, using Korean traditional lacquerworks. This is performed once a week, for 2 hours per each session, for a total of 4 weeks. All volunteers will participate in same program. The effectiveness of this program will be evaluated by using a questionnaire.

### What are the possible benefits and risks of participating?

The possible benefit of participating is that it may improve neuropathic symptoms in participants, along with being able to keep the handicrafts made during the program. The only possible risk of participation is physical injury from craft tools such as knives; however, this is unlikely as the program is supervised by professional instructors, specialized nurses and a surgeon.

Where is the study run from?

Ewha Womans University College of Medicine Mokdong Hospital (South Korea)

When is the study starting and how long is it expected to run for?

February 2012 to August 2018

Who is funding the study?

Ewha Womans University College of Medicine Mokdong Hospital (South Korea)

Who is the main contact?

Kyung Sook Hong

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## Contact information

### Type(s)

Scientific

### Contact name

Dr Kyung Sook Hong

### Contact details

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Seoul

Korea, South

07985

## Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

1.0

## Study information

### Scientific Title

Efficacy of a REhabilitation PROgram using minor muscles in colorectal cancer patients with chemotherapy-induced Neuropathy: preliminary study

### Acronym

REPRON

### Study objectives

The rehabilitation program using minor muscles of hands can improve the symptoms of the chemotherapy-induced peripheral neuropathy.

**Ethics approval required**

Old ethics approval format

**Ethics approval(s)**

Ewha Womans University Mokdong Hospital, 29/03/2018, EUMC 2018-03-029-002

**Study design**

Observational longitudinal study

**Primary study design**

Observational

**Secondary study design**

Longitudinal study

**Study setting(s)**

Hospital

**Study type(s)**

Treatment

**Participant information sheet**

No participant information sheet available

**Health condition(s) or problem(s) studied**

Colorectal cancer treated with chemotherapy

**Interventions**

The aim of this program is to promote the use of the minor muscles of the hands by decorating handicrafts such as a hand mirror, a business card holder, a table clock, and a picture frame with lacquerware, using the Korean traditional lacquerworks. Lacquerworks were made as follows: First, participants designed his/her craft, then cut the lacquerware into various sizes and shapes according to the design. The more complicated the sizes or shapes of design was, more scrupulous and careful attention was required to handle the lacquerware. Prepared lacquerware was attached on the appropriate locations of hand mirror, a business card holder, a table clock, and a picture frame using glue. This process exercised the minor muscles of the hands and induced the effects of thermal therapy.

This was performed once a week, for 2 hours per each session, for a total of 4 weeks through outpatient clinics. The program was conducted under the supervision of a professional instructor, specialized nurses and a surgeon.

**Intervention Type**

Other

**Primary outcome measure**

Improvement of neuropathic symptoms, assessed using the Korean version of the Short-form McGill Pain Questionnaire (SF-MPQ-2) at the baseline and after completion of the fourth handicraft class.

**Secondary outcome measures**

N/A

**Overall study start date**

01/02/2012

**Completion date**

31/08/2018

## **Eligibility**

**Key inclusion criteria**

1. Diagnosed with colorectal cancer
2. Followed up with chemotherapy after surgical treatment

**Participant type(s)**

Patient

**Age group**

Adult

**Sex**

Both

**Target number of participants**

17

**Key exclusion criteria**

1. Diabetes mellitus
2. Neurological diseases that could affect neuropathic symptoms

**Date of first enrolment**

01/03/2012

**Date of final enrolment**

30/04/2012

## **Locations**

**Countries of recruitment**

Korea, South

**Study participating centre**

**Ewha Womans University College of Medicine**

1071 Anyangcheon-ro, Yangcheon-gu

Seoul

Korea, South

07985

# Sponsor information

## Organisation

Ewha Womans University College of Medicine

## Sponsor details

1071 Anyangcheon-ro, Yangcheon-gu  
Seoul  
Korea, South  
07985

## Sponsor type

University/education

## ROR

<https://ror.org/053fp5c05>

# Funder(s)

## Funder type

Not defined

## Funder Name

Investigator initiated and funded

# Results and Publications

## Publication and dissemination plan

We plan to submit to a peer-reviewed journal in 2018.

## Intention to publish date

01/09/2018

## Individual participant data (IPD) sharing plan

The datasets generated/analysed in this study are not expected to be made available as the datasets will be discarded according to the decision of the institutional review board.

## IPD sharing plan summary

Not expected to be made available