



## Inner Nuclear Macular Microcyst is a Risk Factor for Macular Cystoid Changes After Phacoemulsification in Eyes With Previous Vitrectomy and Macular Pucker Removal

CLINICALTRIALS.GOV IDENTIFIER  
NCT03934190

RECRUITMENT STATUS  
COMPLETED

FIRST POSTED  
MAY 1, 2019

LAST UPDATE POSTED  
MAY 2, 2019

### STUDY DESCRIPTION

#### Brief Summary

To evaluate the visual acuity, macular thickness, morphological changes after cataract surgery in eyes with previous vitrectomy for macular pucker. Associated risk factors were also investigated.

**Condition or Disease:** Macular Pucker  
Macular Cyst

**Intervention/treatment:**

**Phase:** N/A

### DETAILED DESCRIPTION

N/A

### STUDY DESIGN

**Study Type:** Observational

**Estimated Enrollment :** 46 participants

**Intervention Model :** N/A

**Masking:** N/A

**Primary Purpose:** N/A

**Official Title:** Inner Nuclear Macular Microcyst is a Risk Factor for Macular Cystoid Changes After Phacoemulsification in Eyes With Previous Vitrectomy and Macular Pucker Removal

**Actual Study Start Date:** October 2014

**Actual Primary Completion Date:** January 2019

**Actual Study Completion Date:** March 2019

**Actual Study Completion Date:** March 2019

### OUTCOME MEASURES

Primary Outcome Measures: 1. Wilcoxon Signed-Rank test [ Time Frame: 1 day, 1 week, 1 month, 3 months, 6 months and 1 year ]  
A statistical comparison of average of different time point

Secondary Outcome Measures: 1. visual acuity [ Time Frame: 1 day, 1 week, 1 month, 3 months, 6 months and 1 year ]  
visual acuity change in logMAR in different time point

### ELIGIBILITY CRITERIA

**Ages Eligible for Study:** 50 to 80 Years (Adult, Older Adult)

**Sexes Eligible for Study:** All

**Accepts Healthy Volunteers:** No

#### Criteria

Inclusion Criteria:

- Patients had macular pucker surgery before cataract surgery.
- Follow up over 1 year.

Exclusion Criteria:

- Patients had any surgical complications such as posterior capsule rupture, vitreous loss, prolapse through the wound or iris trauma
- Patients had diabetes mellitus.
- Patients had uveitis or other inflammatory eye disease.
- Patients had history of retinal vein occlusion.
- Patients had retinal detachment; or previous vitrectomy for a disease other than macular pucker.

### CONTACTS AND LOCATIONS

#### Contacts

#### Locations

#### Sponsors and Collaborators

Changhua Christian Hospital

**Investigator**

Principal Investigator : San-Ni Chen, MD                      Changhua Christian Hospital

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**MORE INFORMATION**

**Responsible Party :** Changhua Christian Hospital

**ClinicalTrials.gov Identifier :** NCT03934190

**Other Study ID Numbers :** 141012

**First Posted :** May 1, 2019

**Last Update Posted :** May 2, 2019

**Last Verified :** April 2019

**Studies a U.S. FDA-regulated Drug Product:** No

**Studies a U.S. FDA-regulated Device Product:** No

**Keywords provided by Changhua Christian Hospital:** *macular edema  
pseudophakic cystoid macular edema  
macular pucker internal limiting membrane peeling  
pars plana vitrectomy  
Epiretinal Membrane*

**Additional relevant MeSH terms :**