

# Occupational participation, Meaningful activity and Quality of life among colorectal cancer

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**Sapihis M<sup>1</sup>, Loh SY<sup>2</sup>, Chinna K<sup>3</sup>, Roslani AC<sup>4</sup>**

<sup>1</sup>Occupational Therapy Program, Allied Health Science College,  
Ministry of Malaysia; Institute of Postgraduate Studies,

<sup>2</sup>Department of Rehabilitation Medicine,

<sup>3</sup>Department of Social Preventive Medicine,

<sup>4</sup>Department of Surgery, Faculty of Medicine,  
University of Malaya, Kuala Lumpur, Malaysia.

# OUTLINE OF PRESENTATION

1. Study background
2. Methods
3. Results
4. Conclusion
5. Implication

# STUDY BACKGROUND

Colorectal cancer is the third most common cancer

(Cancer Research, UK,2010); American Ca Society, 2014)

- 1<sup>st</sup> most cancer in Malaysian men -16.4%
- 2<sup>nd</sup> most cancer in Malaysian women-10.7%

(Zainal & Saleha, 2011)

- Incidence increase at the age 50 and older

(American Ca Society, 2014, Muhammad Radzi et al 2014)

## **5 years Survival rates :**

- Asia – 60% survivals - mostly late detection
- Malaysian – 40% overall survival rate (Stage I & II)

(Radzniwan et al, 2009)



## **Occupational Participation/participation – a key concept/outcome measure in OT;**

(ICF, WHO 2001; Seekins et al., 2012; van der Mei, Dijkers, & Heerkens, 2011; Vessby & Kjellberg, 2010)



### ***Meaningful activity***

### **Link between ‘*meaningful activity*’ and ‘*meaning in life*’**

(Eakman, 2013, 2014; Pergolotti, Cutchin, Muss 2014)



**Little is known about engagement in personally meaningful activity**

# METHODS

<b>Ethical/Design/ Setting</b>	University Malaya Medical Ethics Committee: 201311-0508 Ministry of Health of Malaysia : NMRR: 13-1525-18789
	<b>Cross-sectional survey design</b> - April to December 2014
	<b>University Malaya Medical Centre &amp; Selayang Hospital</b>
<b>Sample size/Sample</b>	Minima sample size N= 107; 80% power, $\alpha=0.05$ ; G*Power software 3.2 ( <a href="#">Faul et al, 2009</a> )
	<b>113/152</b> (74.3% response rate)
<b>Procedure : Inclusion &amp; Exclusion criteria</b>	>18 years of age, Stage I- IV ;No recurrent disease, No mental health problems.; Not consented
<b>Tools</b>	1. OPQ-M ( <a href="#">Sapihis,Loh,Roslani &amp; Chinna 2015</a> ) 2. EMAS-M 3. EORTC QOQ C30 ver 3 - Malay version ( <a href="#">Yussof,Low,Yip et al 2010</a> )
<b>Statistical Analysis</b>	IBM SPSS version 22 SmartPLS version 3.2 ( <a href="#">Ringle et al 2014</a> )

# RESULTS

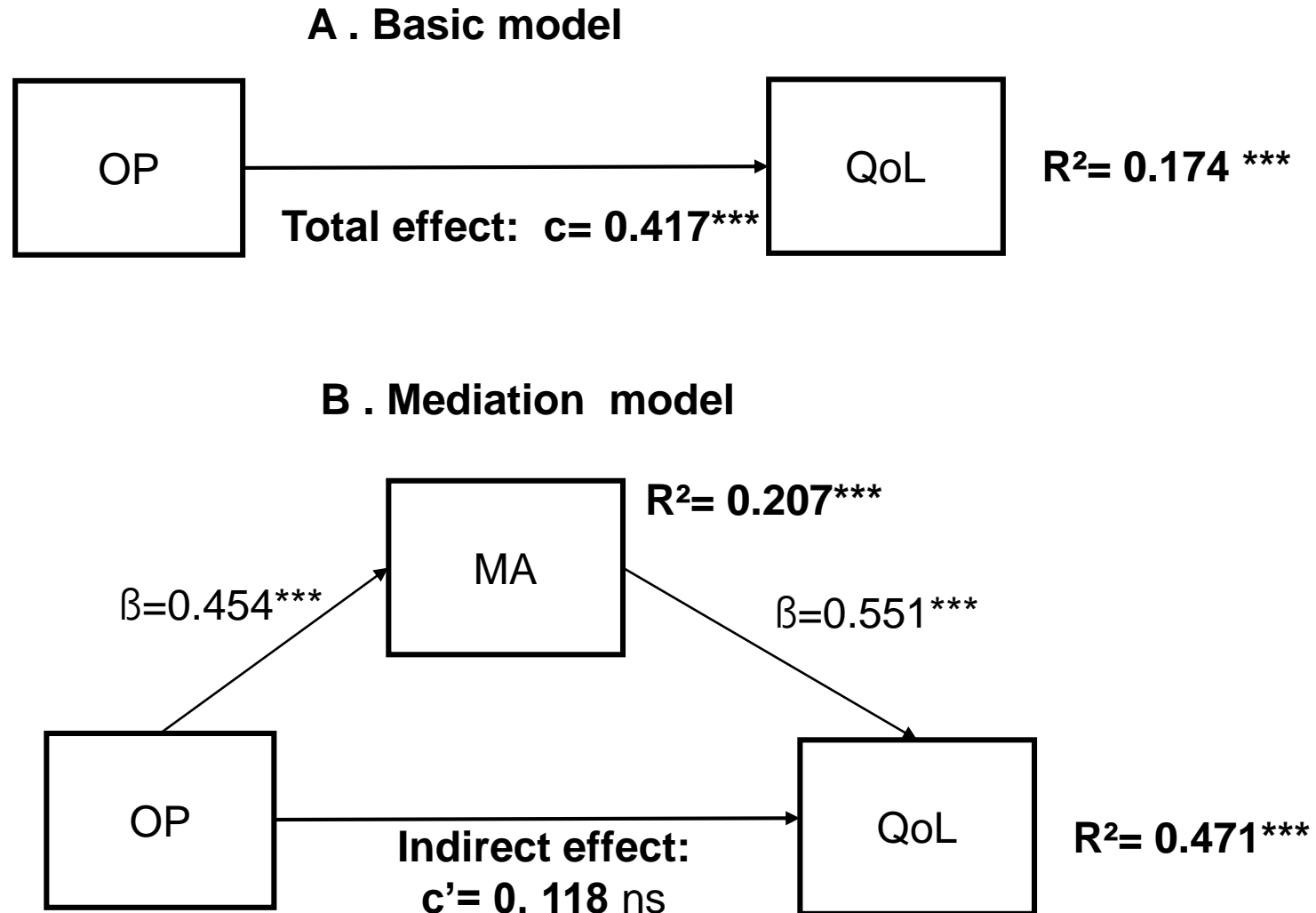


Figure 1: Summary of mediating test of the association between occupational participation(OP), meaningful activity (MA) and health QoL .

\*\*\*  $p < 0.001$ ; ns = 0.160

# RESULTS FOR MEDIATION TEST

Table 1: Bootstrapping's Test Results

Path	Path Coefficient ( $\beta$ ) (a*b)	t- value > 1.96	p-value	Confident Interval ( 95% CI)
OP-MA -QoL	0.250 (0.46*0.59)	3.91	p=0.05	0.116 – 0.365

OP - occupational participation

MA - meaningful activity

QoL – quality of life

# IMPLICATION

- ✓ OT practice in Malaysia
- ✓ OT education
- ✓ Future research



# CONCLUSION

Subjective evaluation of engaging in ***meaningful activity*** from the individual appraisal is a determinant for successful participation in daily living activities, which in turn influences **positive health QoL** in colorectal cancer survivors.