**ABSTRACT** 

weeks of learning.

NURUL\*

integrative

orchestra:

General

**Characteristics:** 

Mean age (years)

21.54 ± 3.14

Weight

**Fitness** 

Motor Skills

Rhythm

Steadiness Test

Musical Hearing

Forward

Quality of Life Scale

Backward

Sustained attention (min)

Simple Cognitive Skills

Finger Tapping (average in 1 min)

Digit Span (short-term memory)

Simple Reaction Time (s)













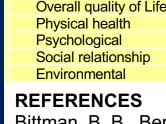


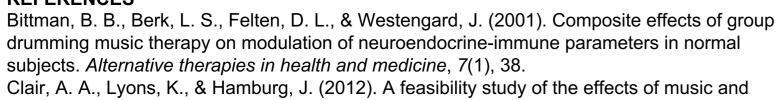












movement on physical function, quality of life, depression, and anxiety in patients with Parkinson disease. Music and Medicine, 4 (1), 49-55.

# NURUL MODULE



Trained musicians introduced the study procedure to PLPP Bangi

Intervention was conducted daily for 4 weeks

basic performance technique.

UNIVERSITI SAINS MALAYSIA

**OBJECTIVES** 

1. To learn to play a jazz band musical instrument with

2. To use the the music knowledge to educate for

skills, musical skills, simple cognitive skills and quality of life were assessed pre- and post- intervention











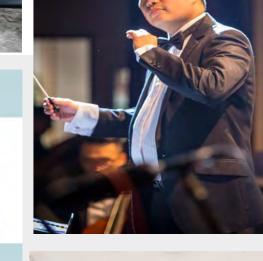






## community service by empowering musical literacy in children with special needs. Participants motor







## Learning a musical instrument: Takes time Costly (in formal sessions) Received Human

NURUL

Research Ethics Committee, USM Research (USM/JEPeM/17 120712),













### General characteristics

Table 2: Pre-post intervention upon receiving the Brain-breaks NURUL Intervention (N = 28)

We would like to introduce an approach

that helps one to learn an instrument fast

module **NUTURING** 

and benefits overall wellbeing.

**NURUL MODULE** 

developed by A.P. Dr. Garry Kuan UPBEATING

upon the establishment of two UPLIFTING

for teaching WCC108 Jazz Band, RESOUNDING

The module allows us to teach WCC108 Jazz Band

Nashville Numbering System while focusing on

their proprioception, crude and fine touch.

students and to teach children to play violin using the

is

USMKK Symphony LOVELY

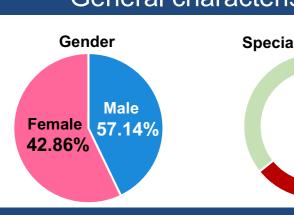
module

learning

Orchestra, and PLPP Orchestra

**Variables** 

**Variables** 



**Special Kids Type** 

Mean difference

(95%, CI)

17.1 (14.28, 19.97)

Mean difference (95%,

0.17 (0.67, 1.37)

0.16 (0.85, 1.52)

0.23 (1.98, 1.02)

0.20 (1.26, 0.45)

0.25 (2.83, 1.80)

0.59 (5.50, 3.07)

0.73 (5.57, 2.57)

0.33 (1.51, 2.89)

0.17 (0.71, 0.03)

0.41 (4.87, 3.19)

0.41 (3.92, 2.22)

0.21 (1.72, 0.85)

0.37 (2.88, 1.34)

Autistic Blind

t-stats

(df = 27)

12.19 (39)

= 27)

6.029

5.016

7.281

6.441

9.203

7.256

5.570

6.584

2.073

9.848

7.411

6.088

5.609

t-stats

INNOVATIONS IN TEACHING & LEARNING COMPETITION

During the COVID-19 lockdown, WCC108 co-curriculum Jazz Band faces numerous

difficulties in determining the "right" method of teaching and learning. Initially,

applications such as Zoom, Google Teams, and Webex were unable to support music

lessons due to sound issues, lagging, and the absence of high musical pitch. In

addition, the learning outcome of WCC108 includes music education and community

impact. In Malaysia, most musical intervention has been a clinical and evidence-based

approach in therapies, however it is rarely addressed to children with special needs.

Therefore, the Nurul Module was founded, which is a simplied, musical learning module

specifically designed for the disabled. This is a simplied musical notation system to

replace contemporary learning system, which is complex and requires a long extensive

time to master the instrument. It is a guided fingering board marking, which each string

1 colour, each line 1 colour, and each note with 1 number. It is also colour-blind friendly

educative module with precise engineered cut markings, which has different thickness.

The educative module caters for the disabled and disadvantaged populations, who is

interested to learn to play a musical instrument. Our studies showed significant

improvement (p=0.001) on motor skills, cognitive skills and quality of life after four

Slow-learner

### Physical Table 1: Pre-post intervention (intensive exercise training program; n = 40)

p-value

< 0.001

p-value

0.001

0.001

0.001

0.001

0.001

0.001

0.001

0.001

0.048

0.001

0.001

0.001

0.001

### **USEFULNESS**

students

**ADDED VALUES** 

It is the first module to

teach disabled and abled

numbering system, and

asynchronous learning.

using

It is fun, effective and only required ONE (1) month to master the instrument.



### RECOGNITION

Global -Endorsed by Community Health (GCH) and Jesselton Philharmonic Orchestra (JPO).

- Won Pencipta 2022 and MTE 2023.



### **COMMERCIAL POTENTIAL**

-JKM pledged 600 books, which will be circulated to 574 PDKs in Malaysia.

-2000 books by USM press. -Collaborate with local leaders, NGOs, healthcare practitioners, social media influencers.

### The present study shows that there are significant changes in motor skills, memory and quality of life in the sample group.

**MOTOR** 

The effects of musical intervention pertaining in physical rehabilitation has been proven by many researchers. For example, the technique of playing a violin allows enhancement of fine and gross motor coordination, control, muscle strength and range of motion.

**MEMORY** 

A child being exposed to music will need to face challenges and multisensory experiences which encourage cognitive development and enhance learning abilities such as planning, working memory, inhibition, and flexibility.

**QUALITY** OF LIFE

**SKILLS** 

Quality of life patients with disability contribute to negative emotions and thoughts as it reflects the problems they experience in their interaction with society and physical movements.

Music remains as a conventional way to express emotional feelings freely, allowing patients to diminish negative thoughts.



**ELIMINATE ALL** 

**DISCRIMINATION IN** 





unicef





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3 GOOD HEALTH AND WELL-BEING



Assoc Prof. Dr Garry Kuan School of Health Sciences



Assoc Prof. Dr Kueh Yee Cheng **School of Medical Sciences** 



Dr. Vincent Tee **School of Medical Sciences** 



Kang Yi Qi **School of Medical Sciences**