

# ARAT-VR Questionnaire

## Information :

Name : .....

Dominant hand : L / R

First Name : .....

Weight (kg) : .....

Date of birth : ..... / .... / .....

Height (cm) : .....

E-mail : .....

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## Hand used : L / R

### **1. ARAT-VR vs ARAT**

For each item and for each movement, please compare your impression regarding the difficulty between the ARAT-VR and the traditional ARAT according to the scale described below

**-2** : Much easier when performed during the ARAT-VR than traditional ARAT

**-1** : Easier when performed during the ARAT-VR than traditional ARAT

**0** : No difference

**1** : More difficult when performed during the ARAT-VR than traditional ARAT

**2** : Much more difficult when performed during the ARAT-VR than traditional ARAT

**Grasp :**

**Cube - 10 cm**

Hand's opening movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Hand's closing movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Object maintaining during the cube displacement

-2	-1	0	1	2
----	----	---	---	---

Shoulder flexion while putting the cube on a height

-2	-1	0	1	2
----	----	---	---	---

Hand's opening movement to release the cube

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Cube - 2.5 cm**

Hand's opening movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Hand's closing movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Object maintaining during the cube displacement

-2	-1	0	1	2
----	----	---	---	---

Shoulder flexion while putting the cube on a height

-2	-1	0	1	2
----	----	---	---	---

Hand's opening movement to release the cube

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Cube - 5 cm**

Hand's opening movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Hand's closing movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Object maintaining during the cube displacement

-2	-1	0	1	2
----	----	---	---	---

Shoulder flexion while putting the cube on a height

-2	-1	0	1	2
----	----	---	---	---

Hand's opening movement to release the cube

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Cube - 7.5 cm**

Hand's opening movement to grasp the cube

-2	-1	0	1	2
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Hand's closing movement to grasp the cube

-2	-1	0	1	2
----	----	---	---	---

Object maintaining during the cube displacement

-2	-1	0	1	2
----	----	---	---	---

Shoulder flexion while putting the cube on a height

-2	-1	0	1	2
----	----	---	---	---

Hand's opening movement to release the cube

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Grip :**

Pouring the glass with a glass of water

Hand's opening movement to grasp the glass

-2	-1	0	1	2
----	----	---	---	---

Hand's closing movement to grasp the glass

-2	-1	0	1	2
----	----	---	---	---

Object maintaining during the glass displacement

-2	-1	0	1	2
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Pronation movement needed to pour the empty glass

-2	-1	0	1	2
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➤ Justification :

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**Tube - 2.25 cm**

Hand's opening movement to grasp the tube

-2	-1	0	1	2
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Hand's closing movement to grasp the tube

-2	-1	0	1	2
----	----	---	---	---

Approach/reaching movement (maintaining)

-2	-1	0	1	2
----	----	---	---	---

Pulling on the tube

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Tube - 1 cm**

Hand's opening movement to grasp the tube

-2	-1	0	1	2
----	----	---	---	---

Hand's closing movement to grasp the tube

-2	-1	0	1	2
----	----	---	---	---

Approach/reaching movement (maintaining)

-2	-1	0	1	2
----	----	---	---	---

Pulling on the tube

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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## Ring

Hand's opening movement to grasp the ring

-2	-1	0	1	2
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Hand's closing movement to grasp the ring

-2	-1	0	1	2
----	----	---	---	---

Approach/reaching movement (maintaining)

-2	-1	0	1	2
----	----	---	---	---

Pulling on the ring

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Pinch :**

**Thumb-ring finger**

Pinching movement

-2	-1	0	1	2
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Object maintaining during the displacement of the marble

-2	-1	0	1	2
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Shoulder flexion while putting the marble on a height

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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## Thumb-index

Pinching movement

-2	-1	0	1	2
----	----	---	---	---

Object maintaining during the displacement of the marble

-2	-1	0	1	2
----	----	---	---	---

Shoulder flexion while putting the marble on a height

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Thumb-middle finger**

Pinching movement

-2	-1	0	1	2
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Object maintaining during the displacement of the marble

-2	-1	0	1	2
----	----	---	---	---

Shoulder flexion while putting the marble on a height

-2	-1	0	1	2
----	----	---	---	---

➤ Justification :

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**Gross movement :**

**Touching the top of the head**

-2	-1	0	1	2
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➤ Justification :

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**Touching the mouth**

-2	-1	0	1	2
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➤ Justification :

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## **General appreciation**

On a scale ranging from 1 to 5, where 1 is poor and 5 perfect, could you evaluate the following features of the ARAT-VR :

### **Ergonomics of the application**

1	2	3	4	5
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➤ Justification :

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### **Clarity of instructions**

1	2	3	4	5
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➤ Justification :

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**Thank you for your help !**