



# 67° CONGRESSO NAZIONALE SIGG

LA LONGEVITÀ DECLINATA AL FEMMINILE

## SELF-REPORTED DIFFICULTY IN WALKING 400 METERS THE “**RED FLAG**” FOR PROBABLE SARCOPENIA



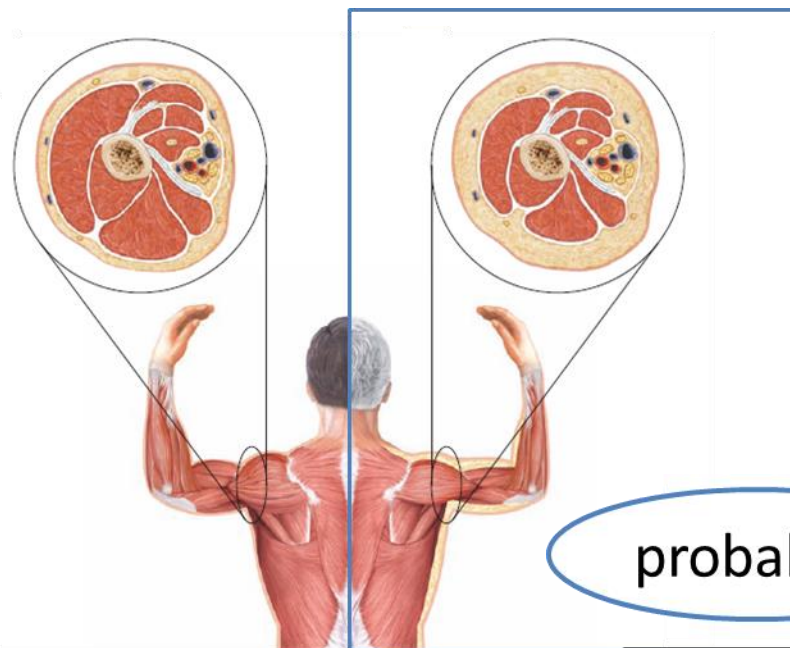
SOCIETÀ ITALIANA  
DI GERONTOLOGIA  
E GERIATRIA

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UOSD Geriatric Frailty Network

Policlinico Universitario Agostino Gemelli, IRCCS

Roma, 30 novembre - 3 dicembre 2022  
UNIVERSITÀ CATTOLICA DEL SACRO CUORE



## GUIDELINES

### Sarcopenia: revised European consensus on definition and diagnosis

ALFONSO J. CRUZ-JENTOFT<sup>1</sup>, GÜLISTAN BAHAT<sup>2</sup>, JÜRGEN BAUER<sup>3</sup>, YVES BOIRIE<sup>4</sup>, OLIVIER BRUYÈRE<sup>5</sup>,  
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 MARJOLEIN VISSER<sup>15</sup>, MAURO ZAMBONI<sup>16</sup>, WRITING GROUP FOR THE EUROPEAN WORKING GROUP ON  
 SARCOPENIA IN OLDER PEOPLE 2 (EWGSOP2), AND THE EXTENDED GROUP FOR EWGSOP2

probabile

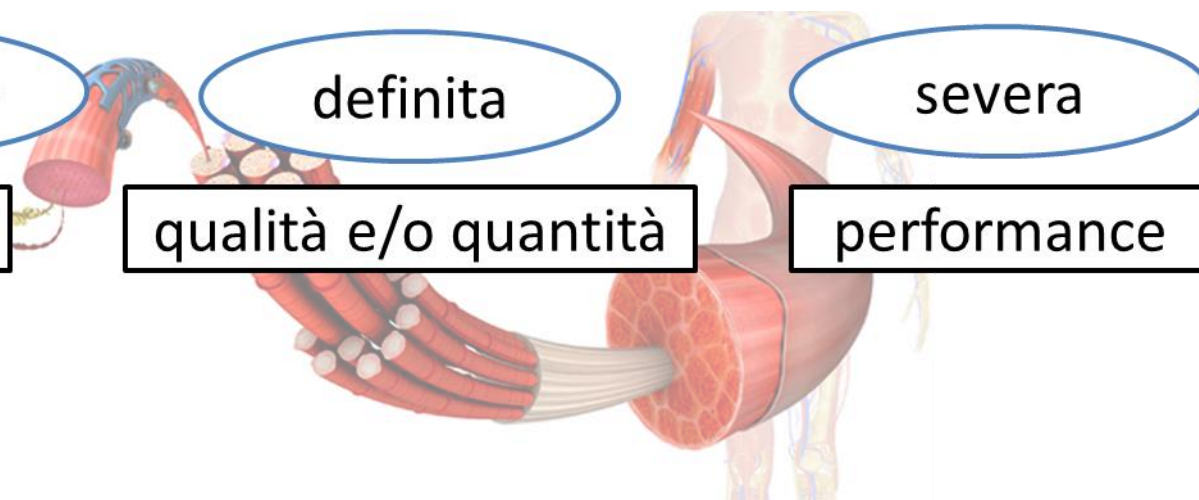
forza

definita

qualità e/o quantità

severa

performance





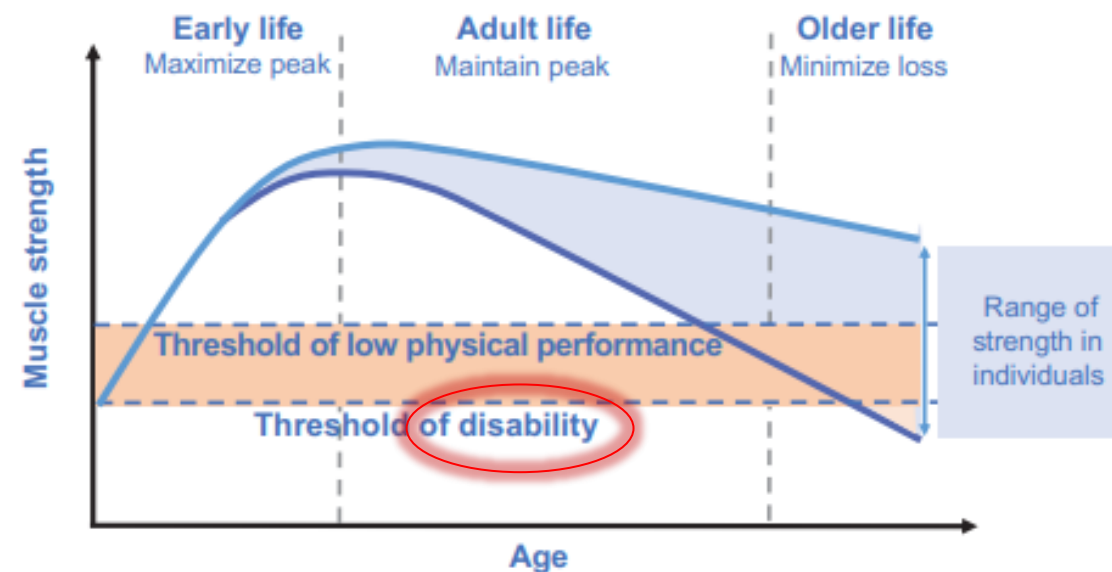


Aging	<ul style="list-style-type: none"> <li>• Age-associated muscle loss</li> </ul>
Disease	<ul style="list-style-type: none"> <li>• Inflammatory conditions (e.g., organ failure, malignancy)</li> <li>• Osteoarthritis</li> <li>• Neurological disorders</li> </ul>
Inactivity	<ul style="list-style-type: none"> <li>• Sedentary behavior (e.g., limited mobility or bedrest)</li> <li>• Physical inactivity</li> </ul>
Malnutrition	<ul style="list-style-type: none"> <li>• Under-nutrition or malabsorption</li> <li>• Medication-related anorexia</li> <li>• Over-nutrition/obesity</li> </ul>

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## Longevity Check-Up 7+

Dal 1 giugno 2015....ad oggi!



Circa 15000 soggetti valutati

fumo



dieta



esercizio fisico



BMI



PA



colesterolemia



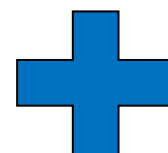
glicemia





### VALUTAZIONE COMPOSIZIONE CORPOREA

- 1) Circonferenza metà braccio: \_\_\_\_\_ cm
- 2) Plica tricipitale: \_\_\_\_\_ mm
- 3) Circonferenza polpaccio: \_\_\_\_\_ cm
- 4) Hand Grip (braccio dominante): \_\_\_\_\_ Kg
- 5) Chair Stand Test (5 volte): \_\_\_\_\_ secondi



**SINGOLA DOMANDA**  
***‘Ha difficoltà a camminare  
per 400 metri?’***





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### Sarcopenia in daily practice: assessment and management

Charlotte Beaudart<sup>1\*</sup>, Eugène McCloskey<sup>2,3</sup>, Olivier Bruyère<sup>1</sup>, Matteo Cesari<sup>4,5</sup>, Yves Rolland<sup>6</sup>, René Rizzoli<sup>7</sup>, Islène Araujo de Carvalho<sup>8</sup>, Jotheeswaran Amuthavalli Thiyagarajan<sup>8</sup>, Ivan Bautmans<sup>9</sup>, Marie-Claude Bertièr<sup>10</sup>, Maria Luisa Brandi<sup>11</sup>, Nasser M. Al-Daghri<sup>12</sup>, Nansa Burlet<sup>1</sup>, Etienne Cavalier<sup>13</sup>, Francesca Cerreta<sup>14</sup>, Antonio Cherubini<sup>15</sup>, Roger Fielding<sup>16</sup>, Evelien Gielen<sup>17</sup>, Francesco Landi<sup>18</sup>, Jean Petermans<sup>19</sup>, Jean-Yves Reginster<sup>1</sup>, Marjolein Visser<sup>20,21</sup>, John Kanis<sup>2,22</sup> and Cyrus Cooper<sup>23,24</sup>

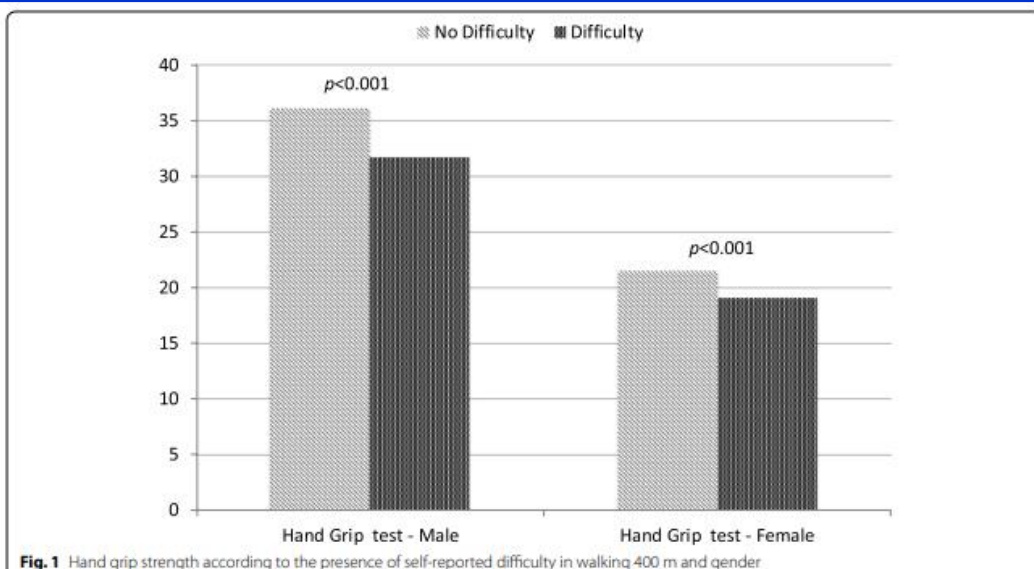




**Table 1** Characteristics of study population (65 year and older) according self-reported difficulty in walking 400 m<sup>a</sup>

Characteristics	Total Sample (n = 2901)	Self-reported difficulty NO (n = 2067)	Self-reported difficulty YES (n = 834)	p
Age (years)	72.7 ± 5.7	72.0 ± 5.3	74.5 ± 6.1	<0.001
Gender (Female)	1599 (55)	1047 (51)	552 (66)	<0.001
Smoking	385 (13)	290 (14)	95 (12)	0.03
Healthy diet	2199 (76)	1606 (78)	593 (71)	<0.001
Physical activity	1438 (50)	1199 (58)	239 (29)	<0.001
BMI (Kg/m <sup>2</sup> )	26.2 ± 4.0	25.6 ± 3.5	27.8 ± 4.6	<0.001
Hypertension	2267 (80)	1577 (78)	690 (84)	<0.001
Cholesterol (mg/dL)	199 ± 33	201 ± 33	196 ± 31	0.01
Diabetes	382 (13)	235 (11)	147 (18)	<0.001
Sarcopenia	529 (19)	264 (13)	265 (34)	<0.001

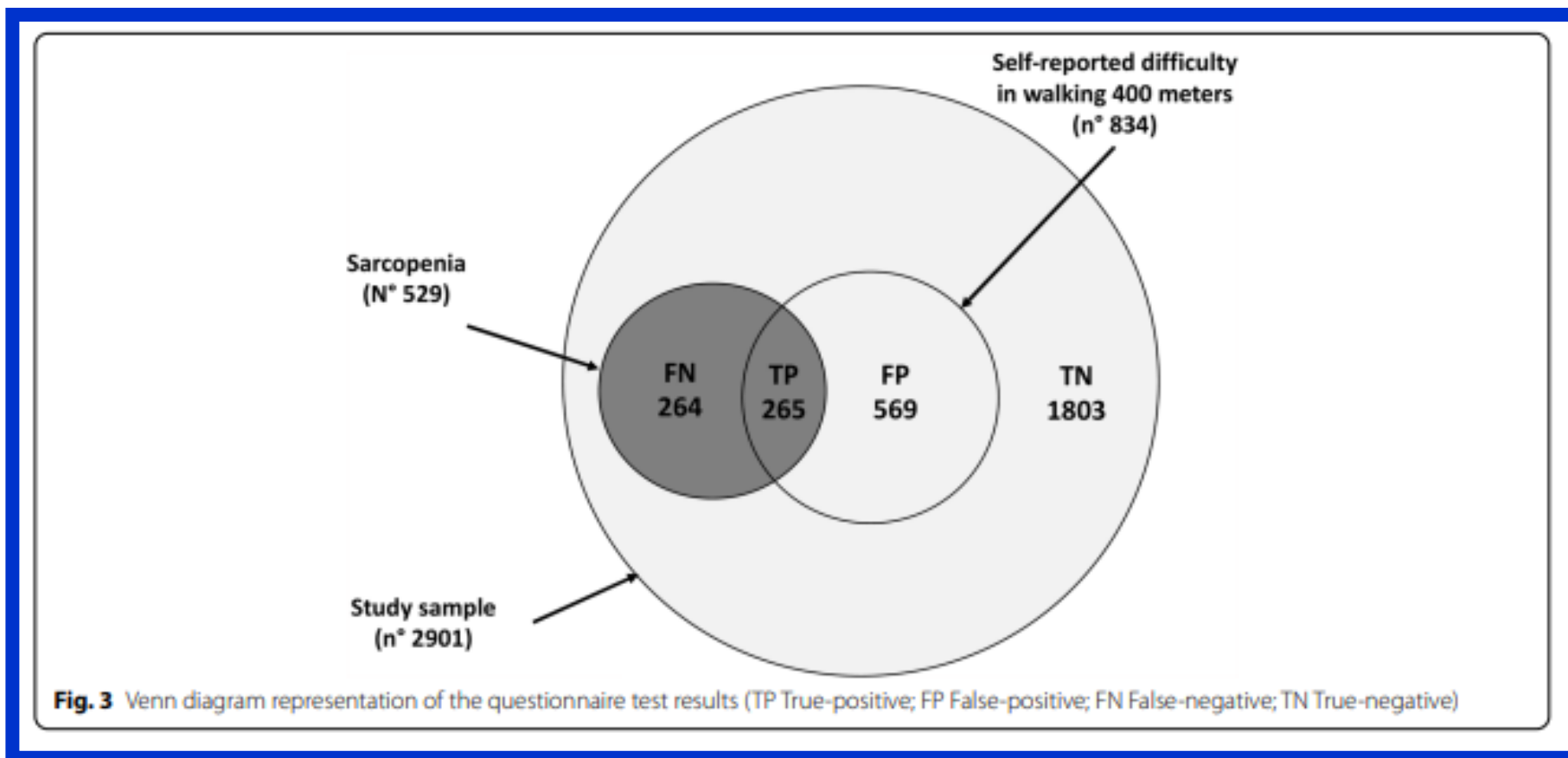




After adjusting for age, gender, smoking habit, healthy diet, physical activity, BMI, hypertension, cholesterol level and diabetes, **participants with difficulty in walking 400 m were over two times more likely to have Probable Sarcopenia!**

	Univariate Odds Ratio (95% CI)	Adjusted Odds Ratio Model 1 (95% CI)	Adjusted Odds Ratio Model 2 (95% CI)	Adjusted Odds Ratio Model 3 (95% CI)
<b>400 m difficulty</b>				
NO	1.0 (Referent)	1.0 (Referent)	1.0 (Referent)	1.0 (Referent)
YES	3.34 (2.75–4.07)	2.45 (1.98–3.03)	2.24 (1.79–2.80)	2.13 (1.68–2.69)
<b>Model 1:</b> adjusted for age and gender				
<b>Model 2:</b> adjusted for age, gender, smoking habit, healthy diet and physical activity				
<b>Model 3:</b> adjusted for age, gender, smoking habit, healthy diet, physical activity, BMI, hypertension, cholesterol level and diabetes				





The positive predictive value was 24.0 [21.8 – 26.4], **the negative predictive** value was 88.7 [87.7 – 89.6].



## TAKE HOME MESSAGES

- ❖ The self reported difficulty in walking 400 m could be suggested as a method for the early detection of individuals at risk of probable sarcopenia.
- ❖ Simplifying the screening process could help to earlier identify sarcopenia and consequently to be more proactive in implementing prevention and treatment strategies.
- ❖ In the near future the use of technological systems (i.e., smartphones, social media) could help to reach a greater segment of the population and enhance the usefulness of this tool.





**GRAZIE PER L'ATTENZIONE!**

