

		<i>al[20]</i>	<i>al[21]</i>	<i>al[22]</i>	<i>al[23]</i>	<i>al[26]</i>	<i>al[27]</i>	<i>al[32]</i>	<i>al[33]</i>		<i>al[35]</i>	<i>al[36]</i>	<i>al[37]</i>	<i>al[38]</i>
Study question	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eligibility criteria and study population	No	Yes	No	Yes	Yes	No	No	Yes	No	Yes	No	No	Yes	No
Study participants representative of clinical populations of interest	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
All eligible participants enrolled	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample size	No	Yes	No	No	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

outcome

measures

Group-level N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

interventions

and

individual-level

outcome

efforts

Quality Fair Good Fair Fair Good Fair Fair Good Good Good Poor Good Good Fair

rating (Good,

Fair, or Poor)

NA: Not applicable.

Supplementary Table 3 Quality assessment of studies with national institutes of health quality assessment tool for before-after studies with no control group (geriatric patients)

Criteria	Wang <i>et al</i> [39]	Chen <i>et al</i> [13]	Liu <i>et al</i> [41]	Abe <i>et al</i> [43]	Sanaka <i>et al</i> [44]	Okada <i>et al</i> [46]	Nakamura <i>et al</i> [47]	Ujiie <i>et al</i> [48]
----------	------------------------	------------------------	-----------------------	-----------------------	--------------------------	-------------------------	----------------------------	-------------------------

Study question	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Eligibility criteria and study population	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Study participants representative of clinical populations of interest	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
All eligible participants enrolled	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sample size	No	Yes	Yes	No	Yes	Yes	No	No
Intervention clearly described	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Outcome measures clearly described, valid, and reliable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Blinding of outcome assessors	No	No	No	No	No	No	No	No
Follow up rate	Yes	Yes	No	No	No	Yes	Yes	Yes
Statistical analysis	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Multiple outcome measures	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
Group-level interventions and individual-level outcome efforts	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Quality Rating (Good, Fair, or	Good	Good	Good	Fair	Good	Good	Good	Fair

Poor)

NA: Not applicable.