Table A.1 — Non-exhaustive list of main methods for risk assessment of repetitive movements/exertions at high frequency

| Method | | Main characteristics | Kind of output | Body part assessment |
|--|-----------------|---|-----------------------|-------------------------|
| OWAS | Ref. [26] | Analysis of postures of different body segments; it also considers their frequency during a work shift. | Quantitative | Whole body |
| RULA | Ref. [34] | Rapid coded analysis of static and dynamic postures; it also considers force and action frequency: the result is an exposure score that drives to the kind of preventive measures to be taken. | Quantitative | Upper limbs |
| REBA | Ref. [18] | Similar to RULA (checklist), it considers all body segments while also taking into account manual handling of loads. | Quantitative | Whole body |
| PLIBEL ^a | Ref. [27] | Checklist for the identification of different risk factors for different body segments; it considers awkward postures, movements, equipment and other organizational aspects. | Quantitative | Whole body |
| Strain Index | Ref. [35] | Detailed method (monotask) that considers the following risk factors: intensity of exertion, duration of exertion per cycle, efforts per minute, hand/wrist posture, speed of work, and duration of task per day. | Quantitative | Distal upper limbs |
| QEC ^a | Ref. [31] | Quick method for estimating the exposure level; it considers different postures, force, load handled, duration of task with hypothesized scores for their interaction. | Quantitative | Whole body |
| OSHA checklist ^a | Ref. [45] | Checklist proposed during the development of the OSHA standard (withdrawn); it considers repetitiveness, awkward postures, force, some additional factors and some organizational aspects. | Quantitative | Upper limbs |
| HAL/TLV ACGIH | Ref. [1] | Detailed method (for monotask handwork lasting almost 4 h per shift) mainly based on the analysis of frequency of actions (in relation to duty cycle) and of peak force; other main factors are generically considered. | Quantitative | Upper limbs |
| Upper limb expert tool ^a | Ref. [28] | Screening method evaluating the "work load", it considers repetition, force, awkward postures, task duration and some additional factors. | Semi- quantitative | Upper limbs |
| OCRA index | Ref. [11], [38] | Detailed method that considers the following risk factors: frequency of technical actions, repetitiveness, awkward postures, force, additional factors, lack of recovery periods, duration of repetitive task. | Quantitative | Upper limbs |
| OCRA checklist ^a | Ref. [11], [41] | Semi-detailed method that considers, in a simplified way, the same risk factors as the OCRA index. Exposure level is classified in the three-zone system. | Quantitative | Upper limbs |
| | | Applicable also to multitask repetitive jobs. | | |
| Method/tool useful for the purposes of Method 1. | | | | |