

## Pulmonary Embolus evidence project – Evidence-based Guidelines Included in the Recommendation Matrix

### Mean Guideline Scores and Scaled Scores across Domains of the AGREE II Instrument

| AGREE II Domain  | AGREE II Domain Topics  | American Academy of Family Physicians / American College of Physicians (Qaseem et al) 2007. Current diagnosis of venous thromboembolism in primary care. | American Heart Association (Jaff et al) 2011. Management of massive and submassive pulmonary embolism, iliofemoral deep vein thrombosis, and chronic thromboembolic pulmonary hypertension. | American College of Physicians (Raja et al) 2015. Evaluation of patients with suspected acute pulmonary embolism. | Streiff et al 2016. Guidelines for the treatment of deep vein thrombosis and pulmonary embolism. | American Society of Hematology (Lim et al) 2018. Guidelines for management of venous thromboembolism: Diagnosis of venous thromboembolism. | National Institute for Health and Care Excellence (NICE) 2020. Venous thromboembolic diseases: Diagnosis, management and thrombophilia testing. | Spanish Society of Pneumology and Thoracic Surgery (Uresandi et al) 2013. National consensus on the diagnosis, risk stratification and treatment of patients with pulmonary embolism. |
|--|---|--|---|---|--|--|---|---|
| <b>Total Score EXCLUDING overall assessment score</b>        |   | 90   | 103.5   | 94  | 90   | 131  | 146   | 88  |
| <b>Scaled Total Score Excluding overall assessment score</b> |   | 49%  | 58%   | 51%   | 49%  | 78%  | 89%   | 47%   |
| <b>Overall Assessment</b>                                    | Would you recommend this guideline for use in practice?   | Y  | Y   | Y   | Y  | Y  | Y   | Y   |
| <b>Overall Assessment Score</b>                              | Rate the overall quality of the guideline (Scale of 1 to 7)<br><b>NOTE:</b> The overall assessment score is not included in the total score | 4  | 4.5   | 4   | 4  | 5.5  | 6.5   | 4   |
| <b>Scope and Purpose</b>                                     | <b>Domain Score</b>   | 14   | 14.5  | 11  | 10.5   | 20   | 20  | 10.5  |
|  | <b>Scaled Domain Score Percentage</b>   | 61%  | 64%   | 44%   | 42%  | 94%  | 94%   | 42%   |
| <b>Stakeholder Involvement</b>                               | <b>Domain Score</b>   | 11   | 12  | 11.5  | 9.5  | 20   | 17.5  | 10.5  |
|  | <b>Scaled Domain Score Percentage</b>   | 44%  | 50%   | 47%   | 46%  | 94%  | 81%   | 42%   |
| <b>Rigor of Development</b>                                  | <b>Domain Score</b>   | 32   | 34.5  | 33  | 33   | 51   | 52  | 29  |
|  | <b>Scaled Domain Score Percentage</b>   | 50%  | 55%   | 52%   | 52%  | 90%  | 92%   | 44%   |
| <b>Clarity and Presentation</b>                              | <b>Domain Score</b>   | 16.5   | 17  | 17.5  | 17.5   | 19   | 19.5  | 17.5  |
|  | <b>Scaled Domain Score Percentage</b>   | 75%  | 78%   | 81%   | 81%  | 89%  | 92%   | 81%   |
| <b>Applicability</b>   | <b>Domain Score</b>   | 9  | 15.5  | 15  | 14.5   | 21   | 24.5  | 10.5  |
|  | <b>Scaled Domain Score Percentage</b>   | 21%  | 48%   | 46%   | 44%  | 71%  | 85%   | 27%   |
| <b>Editorial Independence</b>                                | <b>Domain Score</b>   | 11   | 10  | 6   | 5  | 12   | 12.5  | 7   |
|  | <b>Scaled Domain Score Percentage</b>   | 75%  | 67%   | 33%   | 25%  | 83%  | 88%   | 42%   |

\*Mean guidelines scores across domains of the AGREE II instrument. Each question was rated on a Likert scale with a maximum of 7 points. The scores are averaged for each of the 2 reviewers. The scaled domain score is calculated as follows: (obtained score – minimum possible score) ÷ (maximum possible score – minimum possible score)

## Mean Guideline Scores and Scaled Scores across Domains of the AGREE II Instrument

| AGREE II Domain  | AGREE II Domain Topics  | American College of Emergency Physicians (Wolf et al) 2018. Critical issues in the evaluation and management of adult patients presenting to the ED with suspected acute venous thromboembolic disease. | Thrombosis and Haemostasis Society of Australia and New Zealand (Tran et al) 2019. Diagnosis and management of venous thromboembolism. | British Thoracic Society (Howard et al) 2018. Initial outpatient management of pulmonary embolism. | American College of Radiology (Kirsch et al) 2017. ACR Appropriateness Criteria <sup>®</sup> : Acute chest pain – suspected pulmonary embolism. | European Society of Cardiology & European Respiratory Society (Konstantinides et al) 2019. Guidelines for the diagnosis and management of acute pulmonary embolism. | Society of Nuclear Medicine and Molecular Imaging (Waxman et al) 2017. Appropriate Use Criteria for ventilation-perfusion imaging in pulmonary embolism. | American College of Radiology (Hanley et al) 2018. ACR Appropriateness Criteria <sup>®</sup> : Suspected lower extremity deep vein thrombosis. |
|--|---|---|--|--|---|---|--|--|
| <b>Total Score EXCLUDING overall assessment score</b>        |   | 119.5   | 94.5   | 115  | 77.5  | 106.5   | 106  | 102  |
| <b>Scaled Total Score Excluding overall assessment score</b> |   | 70%   | 52%  | 67%  | 39%   | 61%   | 60%  | 57%  |
| <b>Overall Assessment</b>                                    | Would you recommend this guideline for use in practice?   | Y   | Y  | Y  | Y   | Y   | Y  | Y  |
| <b>Overall Assessment Score</b>                              | Rate the overall quality of the guideline (Scale of 1 to 7)<br><b>NOTE:</b> The overall assessment score is not included in the total score | 5.5   | 4  | 5  | 3.5   | 4.5   | 4.5  | 4.5  |
| <b>Scope and Purpose</b>                                     | <b>Domain Score</b>   | 18.5  | 16   | 16   | 8.5   | 18.5  | 17.5   | 16.5   |
|  | <b>Scaled Domain Score Percentage</b>   | 86%   | 72%  | 72%  | 31%   | 86%   | 81%  | 75%  |
| <b>Stakeholder Involvement</b>                               | <b>Domain Score</b>   | 17.5  | 13   | 14   | 8.5   | 14.5  | 11.5   | 12   |
|  | <b>Scaled Domain Score Percentage</b>   | 81%   | 56%  | 61%  | 31%   | 64%   | 47%  | 50%  |
| <b>Rigor of Development</b>                                  | <b>Domain Score</b>   | 45.5  | 29   | 40   | 32  | 33.5  | 34.5   | 39   |
|  | <b>Scaled Domain Score Percentage</b>   | 78%   | 44%  | 67%  | 50%   | 53%   | 56%  | 65%  |
| <b>Clarity and Presentation</b>                              | <b>Domain Score</b>   | 17.5  | 17.5   | 16   | 13.5  | 19.5  | 14.5   | 17.5   |
|  | <b>Scaled Domain Score Percentage</b>   | 81%   | 81%  | 72%  | 58%   | 92%   | 64%  | 80%  |
| <b>Applicability</b>   | <b>Domain Score</b>   | 11.5  | 12   | 19   | 12  | 12.5  | 16.5   | 9  |
|  | <b>Scaled Domain Score Percentage</b>   | 31%   | 33%  | 63%  | 33%   | 35%   | 52%  | 21%  |
| <b>Editorial Independence</b>                                | <b>Domain Score</b>   | 9   | 7  | 10   | 5   | 8   | 11.5   | 8  |
|  | <b>Scaled Domain Score Percentage</b>   | 58%   | 54%  | 67%  | 25%   | 50%   | 79%  | 50%  |

\*Mean guidelines scores across domains of the AGREE II instrument. Each question was rated on a Likert scale with a maximum of 7 points. The scores are averaged for each of the 2 reviewers. The scaled domain score is calculated as follows: (obtained score – minimum possible score) ÷ (maximum possible score – minimum possible score)

## Mean Guideline Scores and Scaled Scores across Domains of the AGREE II Instrument

| AGREE II Domain  | AGREE II Domain Topics  | Canadian Thoracic Society (Helmersen et al) 2019. Diagnosis of chronic thromboembolic pulmonary hypertension. | American College of Radiology (Sirajuddin et al) 2017. ACR Appropriateness Criteria®: Suspected pulmonary hypertension. | European Society of Cardiology & European Respiratory Society (Galie et al) 2015. Diagnosis and treatment of pulmonary hypertension. | American College of Radiology (Beache et al) 2020. ACR Appropriateness Criteria®: Acute nonspecific chest pain-low probability of coronary artery disease. | European Society for Vascular Surgery (Kakkos et al) 2021. Clinical practice guidelines on the management of venous thrombosis. |
|--|---|---|---|--|--|---|
| <b>Total Score EXCLUDING overall assessment score</b>        |   | 120.5   | 92  | 98.5   | 107.5  | 107.5   |
| <b>Scaled Total Score Excluding overall assessment score</b> |   | 71%   | 50%   | 55%  | 61%  | 61%   |
| <b>Overall Assessment</b>                                    | Would you recommend this guideline for use in practice?   | Y   | Y   | Y  | Y  | Y   |
| <b>Overall Assessment Score</b>                              | Rate the overall quality of the guideline (Scale of 1 to 7)<br><b>NOTE:</b> The overall assessment score is not included in the total score | 5.5   | 4   | 4.5  | 4.5  | 4.5   |
| <b>Scope and Purpose</b>                                     | <b>Domain Score</b>   | 17  | 12.5  | 15.5   | 15.5   | 19  |
|  | <b>Scaled Domain Score Percentage</b>   | 78%   | 53%   | 69%  | 69%  | 89%   |
| <b>Stakeholder Involvement</b>                               | <b>Domain Score</b>   | 17  | 11  | 12   | 12.5   | 17  |
|  | <b>Scaled Domain Score Percentage</b>   | 78%   | 44%   | 50%  | 53%  | 78%   |
| <b>Rigor of Development</b>                                  | <b>Domain Score</b>   | 44  | 35.5  | 34   | 40   | 32  |
|  | <b>Scaled Domain Score Percentage</b>   | 75%   | 57%   | 54%  | 67%  | 50%   |
| <b>Clarity and Presentation</b>                              | <b>Domain Score</b>   | 16  | 14.5  | 16.5   | 19   | 19.5  |
|  | <b>Scaled Domain Score Percentage</b>   | 72%   | 64%   | 75%  | 89%  | 92%   |
| <b>Applicability</b>   | <b>Domain Score</b>   | 16  | 10.5  | 12.5   | 11   | 16.5  |
|  | <b>Scaled Domain Score Percentage</b>   | 50%   | 27%   | 35%  | 29%  | 52%   |
| <b>Editorial Independence</b>                                | <b>Domain Score</b>   | 10.5  | 8   | 8  | 9.5  | 3.5   |
|  | <b>Scaled Domain Score Percentage</b>   | 71%   | 50%   | 50%  | 63%  | 13%   |

\*Mean guidelines scores across domains of the AGREE II instrument. Each question was rated on a Likert scale with a maximum of 7 points. The scores are averaged for each of the 2 reviewers. The scaled domain score is calculated as follows: (obtained score – minimum possible score) ÷ (maximum possible score – minimum possible score)