J.35 Thoracic surgery

t-effectiveness R:
र:
h risk patients: rvention 1: Dominated rvention 2: Dominated rvention 3: Dominant 5 CI: NR bability Intervention 1 cost-effective DK/30K threshold): 4%/4% bability Intervention 2 cost-effective DK/30K threshold): 18%/18% bability Intervention 3 cost-effective DK/30K threshold): 78%/79% Hysis of uncertainty: babilistic sensitivity analysis was ducted. Analyses were reported for two n scenarios : iii- the base-case NMA based on the no interaction, random-effects analysis, using the predictive distribution output iv- the direct meta-analysis comparing thigh-length AFS (nlus
h risk rven rven 5 Cl: 1 babil DK/30 babil DK/30 babil DK/30 babil duct n sce iii- t i t t

Time horizon: lifetime Treatment effect duration:^(a) 14 days Discounting: Costs: 3.5% ; Outcomes: 3.5% Knee-length AES in addition to pharmacological prophylaxis (LMWH) for a duration of 7 days (standard duration). Intervention 3:

Intervention

Thigh-length AES in addition to pharmacological prophylaxis (LMWH) for a duration of 7 days (standard duration). pharmacological prophylaxis) with knee-length AES (plus pharmacological prophylaxis).

Additionally, sensitivity analysis changing the price used for AES (based on published prices and clinical experts estimate) and the level of patient adherence to thigh-length stockings (90% and 75%).

The results of all scenario and sensitivity analyses were largely consistent with the base case results.

Data sources

Health outcomes: baseline event rates were based on the ACCP 2012 guideline, which used systematic review of RCTs published between 2003 and 2010 and metaanalysis. LMWH was considered the baseline treatment. The relative treatment effect was based on a systematic review and NMA of RCT data. long-term events included are PTS, CTEPH, stroke, VTE recurrence, The main health outcomes included were DVT (symptomatic), DVT (asymptomatic), PE (symptomatic) and major bleeding. **Quality-of-life weights:** from published sources largely using the EQ-5D UK tariff. **Cost sources:** standard UK unit cost sources including NHS reference costs and the drug tariff in addition to data from published sources and clinical expert opinions.

Comments

Source of funding: NIHR HTA. **Limitations:** Mixed population of all surgery types, however subgroup analysis is also presented. The model did not include some relevant health outcomes; e.g. clinically-relevant non-major bleeding, minor bleeding and surgical site infection.

Overall applicability:^(b)Partially applicable **Overall quality**^(c) Potentially serious limitations

Abbreviations: AES: anti-embolism stockings; 95% CI: 95% confidence interval; CTEPH: chronic thromboembolic pulmonary hypertension; CUA: cost-utility analysis; da: deterministic analysis; EQ-5D: Euroqol 5 dimensions (scale: 0.0 [death] to 1.0 [full health], negative values mean worse than death); ICER: incremental cost-effectiveness ratio; NMA: network-meta-analysis; NR: not reported; pa: probabilistic analysis; PTS: post-thrombotic syndrome; QALYs: quality-adjusted life years; RCT: randomised controlled trial; TKR: total knee replacement; THR: total hip replacement.

- a) For studies where the time horizon is longer than the treatment duration, an assumption needs to be made about the continuation of the study effect. For example, does a difference in utility between groups during treatment continue beyond the end of treatment and if so for how long.
- b) Directly applicable / Partially applicable / Not applicable
- c) Minor limitations / Potentially serious limitations / Very serious limitations