Figure S1 Discrimination propensity score: RLR *vs.* LLR. PS, propensity score; RLR, robotic liver resection; LLR, laparoscopic liver resection.

Figure S2 Calibration of propensity score: RLR *vs.* LLR. PS, propensity score; RLR, robotic liver resection; LLR, laparoscopic liver resection.

Figure S3 Propensity score distribution before PSM: RLR *vs.* LLR. PS, propensity score; PSM, propensity score matching; RLR, robotic liver resection; LLR, laparoscopic liver resection.
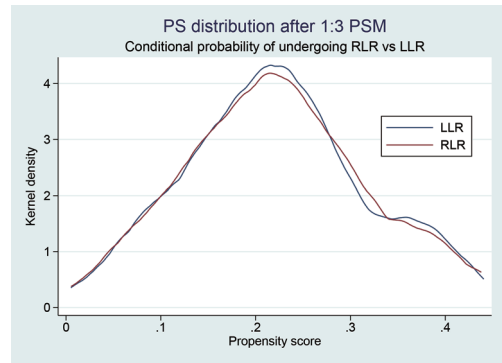

Figure S4 Propensity score distribution after PSM: RLR *vs.* LLR. PS, propensity score; PSM, propensity score matching; RLR, robotic liver resection; LLR, laparoscopic liver resection.
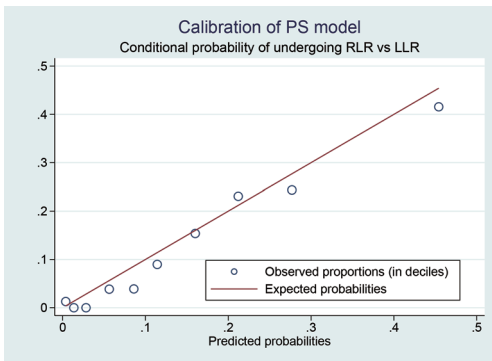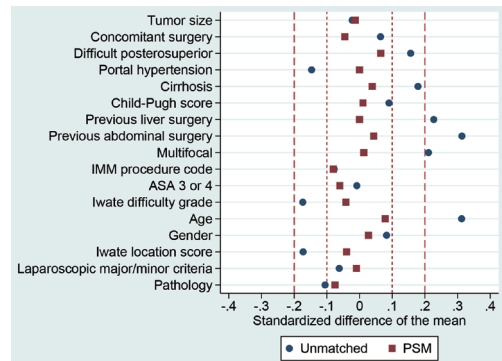

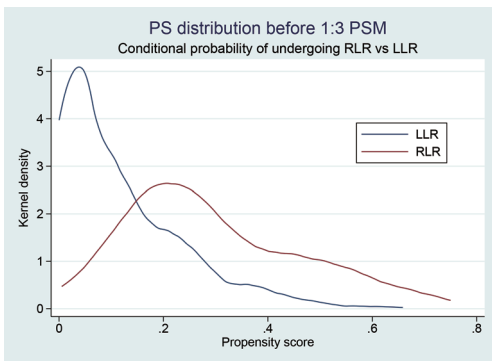**Figure S5** Love plots. IMM, Institute Mutualiste Montsouris; ASA, American Society of Anesthesiologists; PSM, propensity score matching.