

Supplementary table 4. Potentially misleading recommendations description

Strategy	Population	Intervention	Information used	Information analysis	Possible solution
Epistemonikos	Patient with cardiac dyspnea in the emergency department	Pro-BNP guided treatment	Adequate. A SR that included all the relevant information was used	Inappropriate judgment of the quality of evidence.	No solution
Epistemonikos	Patient with asthma reagudization	Intravenous magnesium	Inappropriate. A recent systematic review was not identified	-	Appropriate use of the Epistemonikos matrix of evidence tool identified the missed SR
Epistemonikos	Patient with acute minor stroke	Mechanical thrombectomy	Inappropriate. A recent systematic review was not identified	-	Appropriate use of the Epistemonikos matrix of evidence tool identified the missed SR
Epistemonikos	Patient with acute pancreatitis	Early enteral nutrition	Adequate	Inappropriate judgment of the quality of evidence. Probable inappropriate summary of the evidence.	The recommendation was coherent with the GS when the same SoF was used
Epistemonikos	Patient with tracheal stenosis	Mechanical dilatation	Adequate	Differences in the benefit risk balance judgment	No Solution
Epistemonikos	Patient with recent TB/HIV co-infection diagnoses	Early antiretroviral treatment initiation	Adequate	Differences in the benefit risk balance judgment. Probable inappropriate summary of the evidence.	The recommendation was coherent with the GS when the same SoF was used

Epistemonikos	Patient with osteoporosis	Vitamin K	Adequate	Differences in the benefit risk balance judgment	No solution
Epistemonikos	Patient with asymptomatic cholelithiasis	No surgical treatment	Inappropriate. One relevant publication not identified	-	No solution
PubMed	Patient with acute aneurysmal rupture with SAH	Endovascular treatment	Inappropriate. Two relevant publications not identified	-	No solution
PubMed	Patient with traumatic SHA	Nimodipine	Appropriate	Inappropriate judgment of the quality of evidence. Probable inappropriate summary of the evidence.	The recommendation was coherent with the GS when the same SoF was used
PubMed	Patient with systemic sclerosis and severe lung compromise	Lung transplantation	Appropriate	Differences in the benefit risk balance judgment	No solution
PubMed	Patient with chronic heart failure	BNP guided therapy	Inappropriate. A recent systematic review was not identified	-	Appropriate use of the Epistemonikos matrix of evidence tool identified the missed SR
PubMed	Patient with severe Clostridium Difficile infection	Vancomycin	Inappropriate. A recent systematic review was not identified	-	No Solution