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6 Role of self-expanding metal stents in patients with malignant colorectal obstruction: A
7 systematic review and meta-analysis8 Nirav Thosani, Subhas Banerjee, Vikesh Khanijow, Bhavana Rao, Priyanka Priyanka, Atilla
9 Ertan, Sushovan Guha10
11 Abstract12 3
13 AIM: To assess the safety and efficacy of SEMS for malignant colorectal obstruction.14
15 METHODS: Data regarding technical success, clinical success, and procedure related
16 complications were collected from included studies. DerSimonian-Laird random effects
17 model was used to generate the overall outcome. 30 international studies with a total of
18 2,058 patients with malignant colorectal obstruction were included.19
20 RESULTS: The technical and clinical success rates for SEMS placement were 94% (95% CI,
21 92-96) and 91% (95% CI, 88-93), respectively. Overall complication rate for SEMS was 23%
22 (95% CI, 18-29). Stent migration 8% (95% CI, 6-10) and stent obstruction 8% (95% CI, 6-11)
23 were the most common complications, followed by perforation 5% (95% CI, 4-7%).
24 Surgical or endoscopic re-interventions were needed in 14% (95% CI, 10-18) of patients.

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