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

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