



## No difference of complete or incomplete left-sided malignant colonic obstruction on both short- and long-term outcomes

Z.-H. Liu\*, C. Li\*, N.-Q. Huang\*, M.-J. Huang, H. Peng, L. Kang and J.-P. Wang

Department of Colorectal Surgery,  
Gastrointestinal Institute of Sun Yat-Sen University,  
The Sixth Affiliated Hospital of Sun Yat-Sen University  
(Guangdong Gastrointestinal Hospital), Guangzhou, Guangdong, China

\*These authors contributed equally to this study.  
Corresponding authors: J.-P. Wang / L. Kang  
E-mail: cnzhdoc@126.com / ldrkang@163.com

Genet. Mol. Res. 13 (3): 7965-7978 (2014)  
Received August 16, 2013  
Accepted November 1, 2014  
Published September 29, 2014  
DOI <http://dx.doi.org/10.4238/2014.September.29.10>

**ABSTRACT.** The impact of complete and incomplete colonic obstruction on the short- and long-term outcomes of malignant colorectal cancer has not yet been elucidated. The aim of this study was to investigate whether there was a difference in the impacts of the 2 types of obstruction on the short- and long-term outcomes of colorectal resection. This study included 224 colorectal cancer patients (162 patients with incomplete obstruction and 62 with complete obstruction) with left-sided malignant colonic obstruction who underwent surgical therapy between February 2007 and September 2012. The short- and long-term outcomes of surgical therapy were analyzed. No significant difference was found between the 2 groups with regard to short-term outcomes such as the curative resection rate (80.86 vs 70.97%,  $P = 0.109$ ), hospital stay time ( $24.20 \pm 16.01$  vs  $24.19 \pm 12.06$ ,  $P = 0.999$ ), and the overall and respective complications (32.72 vs 46.77%,  $P =$

0.051). Furthermore, no significant difference was found between the 2 groups with regard to long-term outcomes including the 1-, 3-, and 5-year survival rates ( $P = 0.089$ ), recurrence rates ( $P = 0.711$ ), and recurrence-free survival rates ( $P = 0.440$ ). The 2 types of obstruction, i.e., complete and incomplete left-sided malignant colonic obstruction, had no impact on the short- and long-term outcomes of colorectal resection. Similar therapeutic methods can be used for treating both types of obstruction.

**Key words:** Left-sided malignant colonic obstruction;  
Complete obstruction; Incomplete obstruction