Author’s response to reviews

Title: The clinicopathological observation, c-kit gene mutation and clonal status of gastrointestinal stromal tumor in sacrum

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Editorial Office, **BMC gastroenterol**

Dear editor:

We would like to submit the enclosed manuscript entitled “The clinicopathological observation, c-kit gene mutation and clonal status of gastrointestinal stromal tumor in sacrum” for publication in **BMC gastroenterol**.

Gastrointestinal stromal tumors (GISTs) are the most common mesenchymal tumors of the gastrointestinal tract that arising from the Cajal’s cells expressing c-kit. It is considered as a gastrointestinal tract primary, non-epithelial, non-lympha, non-smooth muscle and non-schwannoma neoplasm. Its most common anatomic sites of origin are the stomach, small intestine, colon and rectum, abdominal cavity, i.e. peritoneum and omentum, esophagus and retroperitoneal space. However, it is very rare that GIST occurs in sacrum. Only a rare case of GIST occurring in sacral region with intracal metabasis was reported in literature. Moreover, only few cases have been reported in literature about its clonal origin. Therefore, in this report we presented a rare case of GIST occurring in sacrum, described and discussed its histopathological characteristic, c-kit gene mutation and clonal status. The results demonstrated that the c-kit gene mutation was not found in the following domain (exon 9, 13 and 17) except exon 11. Moreover, The result of clonal analysis demonstrated that GIST was monoclonal. Thus, we concluded that GIST is a neoplastic lesion. It is very rare that GIST occurs in sacrum. It is difficult to differentiate from other spindle cell tumors,
so it should be diagnosed by immunohistochemistry, and confirmed by the examination of c-kit gene amplification.

All authors have read and approved the final manuscript. This manuscript is not under consideration by another journal and has not been previously published. Since I am not a native English speaker, this manuscript was proofread by an English speaking professional with science background at Elixigen Corporation. We would appreciate your consideration of this manuscript for publication as an original article in BMC gastroenterol

Sincerely

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