Author's response to reviews

Title: A retrospective study of central nervous system shunt infections diagnosed in a university hospital during a 4-year period

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Author's response to reviews:

Dear Editor,

We would like to submit a revised manuscript entitled "A RETROSPECTIVE STUDY OF CENTRAL NERVOUS SYSTEM SHUNT INFECTIONS DIAGNOSED IN A UNIVERSITY HOSPITAL DURING A 4-YEAR PERIOD" for possible publication in BMC Infectious Diseases.

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Description of the changes made on manuscript

Abstract:
Line 1 "monitoring" was replaced by "management"
line 6 inserted = insertions; "studied..factors;" was replaced by "evaluated using;"
line 7 the word "attack" was deleted
line 8 comma after infection was deleted and "features and' was inserted.
line 10 the word "myelomeningocel" was replaced by "myelomeningocele"; the word 'most' was deleted
line 11 "common" was deleted , "commonest" was added
line 13 the beginning of the sentence 'It should not be forgotten that' was deleted and the word "in"replaced with "In". commas were inserted after words "antibiotics" and "testing"

Background

line 6 The words "reported to be" were inserted before "associated".
line 8 "not unusually" was inserted after "requires"

Methods

The sentence which was starting from line 1, "The CNS shunt placement operations that were made in neurosurgery clinic between 2000 December and 2004 December were assessed retrospectively" were replaced by the sentence "The clinical notes of 124 consecutive patients having CNS shunt placement operation for various etiology between 2000 December and 2004 December were reviewed of Pamukkale
University, Medical School, Department of Neurosurgery. Operations were performed by two neurosurgeons. One of them (B.C.) has an extra expertise on pediatric neurosurgery.

line 5 the words "were....factors;" were replaced with "analysed according to"
line 6 the word "attack" was deleted. comma was inserted after the word "infection" and "features and" were inserted after the word "infection";
line 7 the words "And also" deleted; "biochemical" was replaced with "Biochemical"; the words "the" was inserted after the word "from" and "report" replaced by "clinical notes"
line 8 the word "following" was deleted and "the" was replaced with "a" and "of" was replaced "in"
line 9 the words "must be seen" were replaced with the words "was present"

line 15 the word "catheter" was replaced with the word "procedure"
line 16,17 A sentence "Only one dose prophylactic antibiotic (cefuroxime or ampicillin) was given perioperatively to the patients." was added the end of the Methods.

Results
line 1 the word "along" was replaced with the word "in"
A sentence "Twenty-six (20.9 %) of these 124 patients were younger than two years old. The median age of adult patients were 46 (7-72)." were added in the beginning of results section.

line 3 the word "shunts" was changed with the word "shunt"; "a" was inserted after "was"; "Burr" was changed with "burr"
line 4 the word "from" inserted after "pressure"
A sentence "Etiological profile of CNS shunt placement operations of 124 patients is exhibited on Table 1." was added in line 4 on results section.
line 6 "30" was replaced by "Thirty"
line 7 "10" was replaced by "Ten"
A sentence "Clinical data of the 22 patients designated at Tablo 2. Some of the children had another site infection (urinary tract infection, bronchitis, etc.) and majority of adult patients with comorbidities had hypertension, diabetes mellitus and another site infection (urinary tract infection, pneumonia )." were added in line 8-12 on result section.
Part of a sentence "than respectively intracranial mass (23%), intracranial hemorrhage (9%), trauma (9%) and intracranial abscess (4.5%)." was inserted after words "meningitis (23%);".
line 17 "only in" was transposed ; "of them" replaced by "was"
line 18 the word "was" was deleted
line 20 the word "Table 2" was replaced by "Table 3"
line 21 "two-third" replaced "two-thirds"; the word "observed" was replaced with "of the"
line 22 the word "attacks" was replaced by "events"; "were" was inserted after "counts"; the words "of them." was deleted
Line 24 semi-colon after "cases" was deleted; the words "and the" were inserted after "cases"
Line 25 the word "therapy" was inserted after the word "glycopeptide."
Line 26 comma was deleted after "infections"; the word "and" was inserted after "infections"

Discussion
line 3 the word "of" was inserted after "because"
line 5 comma after ",[7]" inserted; "The" replaced by "the"
line 7 "patients" was replaced by "patient"
line 8 The word "myelomeningocele" was replaced by "myelomeningocele"; the words "of the" were deleted; "suggested" was replaced by "suggest"; "the" was inserted after "that"
line 9 comma was inserted after "however"; "the" was inserted after "study,"; the words "incompetent.....of" were replaced with words "insufficient to determine"
line 12 the word "system" was inserted word "systems"
line 14 the word "generally" was inserted after "are"
line 15 comma was inserted after "however"
line 16 the word "the" was inserted after the word "in"
line 19 the word "have" was inserted after word "rates"
line 22 "of" was replaced by "by"; the word "nonspecific" was replaced with "non-specific"
line 23 ";" was deleted; "nausea" was replaced by "nausea"
line 35 A sentence "Previously published microbiologic profile of CSF shunt infections is showed Table 4." was added.
line 40 the words "Despite of" were replaced by "Contrary to"
line 46 the word "like" was replaced by the word "such as"; the word "treatment" was inserted after "following"; "the" was inserted after "in"
line 47 full stop was inserted after "unit"; "colonization" was replaced by "Colonization"
The words "were also contributory factors." inserted after the word "disease.
A sentence "Perioperative prophylaxis is generally targeted on staphylococci." was added.
Line 49 the word "severely" was replaced by "also"
Line 53 the word "antibiotic" was replaced by "antibiotics"
Line 56 the words "the others" were replaced by the words "other authors"
Line 60 the word "with" was replaced by "as a consequence of", the word "choroids" was replaced by "choroid"

Conclusion:
Line 3 the word "take" was replaced with "form"; the word "part" was replaced with the word "percentage"
Line 4 the word "attacks" was deleted; the word "first" was replaced by "firstly"
Line 5 the word "technique" was replaced with word "techniques"; "situ" replaced by "place"
Line 6 the word "second" was replaced by "secondly"

References

Tables
The table "Table 1: Etiological profile of CNS shunt infections with hydrocephalus" was deleted and "Table 1. Etiological profile of CNS shunt placement operations of 124 patients" was inserted.
The table "Table 2. Microbiologic profile of CSF shunt infections attacks" was replaced by "Table 3. Microbiologic profile of CSF shunt infections attacks"
The table "Table 2: Clinical data of the patients" was added.
The table "Table 4. Previously published microbiologic profile of CSF shunt infections" was added.

All the authors have made contributions to the study described in the manuscript and are responsible for its content.
Koray Tekin (MD) revised the manuscript. All the authors wishes that he will be added on authors list.
We are looking forward to hearing from you soon.
Sincerely

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