

## CORRIGENDUM TO “ON FIXED POINT RESULTS FOR A CLASS OF GENERALIZED MEAN NONEXPANSIVE MAPPINGS”

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ABSTRACT. In this corrigendum, we offer a correction to the paper *On fixed point results for a class of generalized mean nonexpansive mappings*, Methods Funct. Anal. Topology, 26 (2020), no. 4, 356–372.

### 1. INTRODUCTION

This corrigendum concerns a result in [1] by Mebawundu et al. In [1], the authors state in Theorem 3.4 that if  $C$  is a non-empty subset of a Banach space  $X$  and  $T: C \rightarrow X$  is a generalized mean nonexpansive mapping, then  $F(T)$  is closed. The following example shows that this theorem is false.

**Example 1.1.** Suppose that  $X = \mathbb{R}$  and  $C = \{x \in X: 0 < x < 1\}$ . Define  $T: C \rightarrow \mathbb{R}$  by

$$T(x) = x \quad \text{for all } x \in C.$$

Then  $T$  is a generalized mean nonexpansive mapping, but  $F(T) = C$  is not closed set of  $\mathbb{R}$ .

The correct statement of Theorem 3.4 in [1] should be as follows.

**Theorem 1.2.** *Let  $C$  be a non-empty closed subset of a Banach space  $X$  and  $T: C \rightarrow X$  be a generalized mean nonexpansive mapping. Then  $F(T)$  is closed. Furthermore, if  $X$  is strictly convex and  $C$  is convex, then  $F(T)$  is convex.*

### REFERENCES

- [1] A. A. Mebawundu, C. Izuchukwu, K. O. Oyewole, and O. T. Mewomo, *On fixed point results for a class of generalized mean nonexpansive mappings*, Methods Funct. Anal. Topology **26** (2020), no. 4, 356–372, [doi:10.31392/MFAT-npu26\\_4.2020.07](https://doi.org/10.31392/MFAT-npu26_4.2020.07).

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