Consider a magnetic dipole placed in a uniform magnetic field $\vec{B}$, where $Q_m$ is a magnetic monopole.

The force on a magnetic monopole $Q_m$ in a magnetic field $\vec{B}$ is $F = Q_m B$ (similar to the electric field where $F = Q_e E$).

Determine the net force $\vec{F}$ on the magnetic dipole.

A) $F = 2 Q_m B$
B) $F = Q_m B$
C) $F = 0$
D) $F = 3 Q_m B$
E) $F = 4 Q_m B$

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Forces on $+Q_m$ and $-Q_m$ are equal in magnitude and opposite in sign. $F_{net} = F_+ + F_- = 0$.

Answer C.