



## COST & READINESS SUMMARY

### Preventive Medicine Kit (PMK) Essentials

#### 1. Purpose

This summary provides a logistics-focused assessment of the **Preventive Medicine Kit (PMK) Essentials** with respect to **cost, sustainment efficiency, and readiness impact**. The intent is to inform acquisition and fielding decisions by evaluating PMK Essentials as a **low-cost, high-return preventive medicine capability**.

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#### 2. Cost Characteristics

##### 2.1 Unit Cost Profile

PMK Essentials is designed as a **low-dollar, Soldier-level item**. Its cost profile aligns with expendable sustainment items already authorized for field use and does not introduce a new class of durable equipment.

Key cost characteristics:

- Low per-Soldier acquisition cost relative to PPE or medical treatment costs
- Components are commercially mature and already produced at scale
- Cost stability due to U.S.-based manufacturing and established supply chains
- Predictable pricing for bulk procurement at unit, battalion, or brigade level

From a logistics perspective, PMK Essentials represents a **cost-avoidance capability** rather than a cost increase.

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#### 3. Procurement & Supply Chain Considerations

##### 3.1 Supply System Compatibility

- PMK Essentials is **NSN-supported**, enabling procurement through standard Army supply channels (DLA / SSA / GCSS-Army).
- No special storage, hazardous handling, or temperature-controlled logistics are required.
- Shelf-stable components simplify pre-positioning and sustainment planning.

### **3.2 Distribution & Handling**

- Lightweight and compact packaging minimizes transportation burden.
- Easily distributed alongside existing Soldier issue items during SRP, CIF draw, or pre-field issue.
- Suitable for unit-level stockage without additional infrastructure.

From a sustainment standpoint, PMK Essentials imposes **minimal friction** on existing logistics processes.

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## **4. Readiness Impact Assessment**

### **4.1 DNBI Reduction and Availability**

Disease and Non-Battle Injury (DNBI) is the **largest driver of lost duty time** across training and deployed operations. PMK Essentials directly mitigates DNBI drivers associated with:

- Sunburn and heat degradation
- Vector exposure and insect bites
- Foot fungus and moisture-related injury
- Hygiene degradation leading to skin infections

Reducing DNBI has a **direct, positive effect** on:

- Soldier availability
- Training completion rates
- Unit manning during critical phases
- Mission continuity

Even modest DNBI reduction yields **disproportionate readiness gains**.

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## 4.2 Medical Cost Avoidance

From a logistics cost perspective, PMK Essentials reduces demand on:

- Medical personnel
- Sick call infrastructure
- Medical evacuation assets
- Pharmaceutical consumption
- Replacement personnel requirements

The cost to treat and evacuate a single DNBI case exceeds the cost to equip multiple Soldiers with PMK Essentials.

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## 5. Comparative Cost Analysis

Cost Factor	Without PMK Essentials	With PMK Essentials
Sick call visits	High and recurring	Reduced
DNBI-related profiles	Common	Lower frequency
MEDEVAC demand	Predictable and costly	Reduced
Medical logistics	Reactive and variable	Preventive and stable
Readiness impact	Degraded	Preserved

From a logistics standpoint, PMK Essentials functions as a **preventive investment** that stabilizes readiness and reduces downstream costs.

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## 6. Sustainment Risk Assessment

- **Technical risk:** Low
- **Supply risk:** Low
- **Distribution risk:** Low
- **Training risk:** None

- **Integration risk:** None

PMK Essentials is a mature capability with **negligible sustainment risk**.

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## 7. Issue and Resupply Model

Recommended logistics model:

- **Initial Issue:** 1 PMK Essentials per Soldier prior to field operations or training cycles.
- **Resupply:** 1 PMK Essentials per Soldier every 7–14 days depending on environment and mission duration.
- **Stockage:** Unit-level stockage for rapid reissue; no special facilities required.

This model aligns with existing sustainment planning cycles and does not require modification of supply doctrine.

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## 8. Logistics Assessment Summary

From a logistics and sustainment perspective, PMK Essentials offers:

- High readiness return at low cost
- Minimal impact on supply systems
- Reduced downstream medical and transportation burden
- Predictable, scalable sustainment

PMK Essentials is best categorized as a **readiness preservation enabler**, not a discretionary expendable.

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## 9. Professional Recommendation

Based on cost, sustainment efficiency, and readiness impact, PMK Essentials represents a **cost-effective, low-risk capability** that supports Soldier availability and operational effectiveness.

From a logistics standpoint, adoption of PMK Essentials is justified as a **preventive medicine investment** that reduces long-term cost and preserves combat power.