



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**.

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.

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.

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**.

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.

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.

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**.

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.

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.

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.