



*System Assessment and Validation for Emergency Responders (SAVER)*

# Individual Officer Trauma Kits Market Survey Report

*April 2016*



**Homeland  
Security**

Science and Technology

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System Assessment and Validation for Emergency Responders

*Prepared by Idaho National Laboratory*

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## FOREWORD

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The U.S. Department of Homeland Security (DHS) established the System Assessment and Validation for Emergency Responders (SAVER) Program to assist emergency responders making procurement decisions. Located within the Science and Technology Directorate (S&T) of DHS, the SAVER Program conducts objective assessments and validations on commercially available equipment and systems and develops knowledge products that provide relevant equipment information to the emergency responder community. The SAVER Program mission includes:

- Conducting impartial, practitioner-relevant, operationally oriented assessments and validations of emergency response equipment
- Providing information, in the form of knowledge products, that enables decision-makers and responders to better select, procure, use, and maintain emergency response equipment.

SAVER Program knowledge products provide information on equipment that falls under the categories listed in the DHS Authorized Equipment List (AEL), focusing primarily on two main questions for the responder community: “What equipment is available?” and “How does it perform?” These knowledge products are shared nationally with the responder community, providing a life—and cost—saving asset to DHS, as well as to Federal, state, and local responders.

The SAVER Program is supported by a network of Technical Agents who perform assessment and validation activities. As a SAVER Program Technical Agent, the Idaho National Laboratory (INL) has been tasked to provide expertise and analysis on individual officer trauma kits. In support of this tasking, INL conducted research on individual officer trauma kits and their use by emergency responders. Individual officer trauma kits fall under AEL reference number 03OE-03-KTFA, titled Kit, First Aid, Trauma Type.

For more information on the SAVER Program or to view additional reports on this and other technologies, visit [www.firstresponder.gov/SAVER](http://www.firstresponder.gov/SAVER).

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## 1. INTRODUCTION

Individual officer trauma kits contain essential supplies for treating life-threatening traumatic injuries, such as gunshot and stab wounds, that occur in a field environment before certified medical assistance can reach the scene. To provide emergency responders with information on individual officer trauma kits the System Assessment and Validation for Emergency Responders (SAVER) Program conducted a market survey.

This market survey report is based on information gathered from January 2016 to March 2016 from vendors, Internet research, and a government issued Request for Information (RFI) posted on the Federal Business Opportunities website. For inclusion in this report, kits were required to include the following:

- Gloves
- Tourniquet
- Pressure bandage
- Hemostatic dressing.

These kits could include additional items; however, the kits could not include more than 10 additional items. This limitation was designed to keep the kits compact, thus allowing them to be easily carried on-person. Several vendors also create custom kits based on the specific needs of an individual agency. Special note of this has been included in Table 4-1.

Due diligence was performed to develop a report representative of products in the marketplace.

## 2. INDIVIDUAL OFFICER TRAUMA KIT OVERVIEW

Whether used for emergency self-care or treatment of another person, individual officer trauma kits—sometimes referred to as individual first aid kits or individual patrol officer kits—can save lives by providing a means to immediately treat life-threatening injuries, primarily by stopping excessive external bleeding. Examples are shown in Figure 2-1 and Figure 2-2.



**Figure 2-1. BoundTree Medical Officer Down Basic Individual First Aid Kit (IFAK), Black MOLLE Bag**

*Image courtesy of BoundTree Medical*



**Figure 2-2. North American Rescue Individual Patrol Officer Kit (IPOK)**

*Image courtesy of North American Rescue*

According to the Hartford Consensus III—a guideline developed by representatives from the American College of Surgeons (ACS), Federal Bureau of Investigation (FBI), U.S. Department of Homeland Security (DHS), and first responder agencies—all first responders should carry a “bleeding control bag.” The materials recommended for inclusion in this bag include tools aimed at prolonging life between the time trauma occurs and intervention at a medical facility. Recommended components include the following:

- Gloves
- Tourniquets
- Pressure bandage
- Hemostatic dressing.

These components are explained in more detail in Sections 2.1-2.4.

## **2.1 Gloves**

Gloves are a critical component of any trauma kit, protecting both wearers and patients from harmful contact exposure. There are two main types of gloves: latex and nitrile. Because of the increase in the number of individuals with latex allergies, nitrile gloves are becoming a more popular choice. All kits included in this document include nitrile gloves.

## **2.2 Tourniquets**

Tourniquets work to stop continuous blood flow. Tourniquets included in individual officer trauma kits are often considered combat tourniquets, meaning they can be applied with one hand. Like most medical supplies, most tourniquets included in these kits are considered to be single-use items.

## **2.3 Pressure Bandages**

Pressure bandages, also known as pressure dressings, emergency trauma dressings, or Israeli bandages, have long been included in trauma kits. In trauma situations, pressure bandages can be placed directly on a wound to cover it and absorb fluid. Pressure bandages are typically made up of three layers:

- A sterile non-adhesive bandage that is placed against the wound
- A bulky, absorbent material that comprises the middle layer
- A stretchable adhesive outer layer.

Some pressure bandages also include a fourth component, a plastic piece on the outside of the bandage designed to apply additional pressure to the wound.

## **2.4 Hemostatic Dressings**

Developed shortly after the increased U.S. involvement in conflicts in Iraq and Afghanistan, hemostatic dressings contain clotting agents that work to quickly stop hemorrhaging and lower the chance of repeated hemorrhaging after bleeding is stopped. The most common forms of hemostatic dressings sold in these kits come in the form of flat-folded gauze. These dressings



are made of a synthetic fiber saturated with a hemostatic agent. Currently, there are two main types of hemostatic agents used in these dressings: kaolin-based and chitosan-based.

## 2.5 Additional Components

Manufacturers of these kits often include additional components ranging from chest seals to safety pins. The kits included in this report contain the following items:

- **Chest seal:** An adhesive dressing used to cover and occlude penetrating chest wounds.
- **Cardiopulmonary resuscitation (CPR) shield:** A one-way valve that permits the user to perform CPR without making contact with potentially harmful pathogens.
- **Nasopharyngeal airway (NPA):** A tube placed through the nose to the pharynx in order to create a conduit and secure the airway.
- **Petrolatum dressing:** A lightweight cotton bandage coated with petroleum jelly.
- **Trauma shears:** Angled scissors with blunt tips used to cut through fabric and expose injuries.
- **Surgical tape:** Multifunctional tool used in a variety of medical settings such as splinting injuries and adhering bandages.
- **Rolled/compressed gauze:** Lightweight cotton material used to pack a wound and absorb blood.
- **Personal fire suppressant:** A handheld device that can be sprayed on small fires to extinguish flames.
- **Decompression needle:** A needle used to treat tension pneumothorax, or the build-up of air between the surface of the lungs and the chest wall, usually caused by a chest injury such as a broken rib or puncture wound.
- **Duct tape/Combat medic reinforcement tape:** An adhesive tape mainly used to reinforce bandages such as compression bandages or gauze dressings.
- **Trauma pad:** An absorbent dressing used primarily for abdominal injuries, although it can be used on any area of the body to absorb fluid.
- **Light stick:** A self-contained light source consisting of a liquid in a plastic tube that, when activated by bending the tube, creates a temporary light.
- **Permanent marker:** A marker used to create lasting, fluid-resistant markings on an object.
- **Safety pin:** A pin that can be used to fasten a sling or attach identification cards to a person.

## 2.6 Applications

Individual officer trauma kits can be used in a variety of medical situations but are primarily focused on treating life-threatening traumatic injuries, such as gunshot and stab wounds that occur in a field environment before certified medical assistance can reach the scene.

### 3. PRODUCT INFORMATION


This section provides information on 15 individual officer trauma kits that range in price from \$58.93 to \$204.50. In order to be included in this report, kits were required to include the following:




- Gloves
- Tourniquet
- Pressure dressing
- Hemostatic dressing.

In addition, the kits could not contain more than 10 additional items. This limitation was designed to keep the kits compact, thus allowing them to be easily carried on-person.

Table 3-1. provides general product specifications and the following sections provide additional product-specific information. Product information presented in this section was obtained directly from vendors or their official websites. The information has not been independently verified by the SAVER Program.




**Table 3-1. Individual Officer Trauma Kit Specifications**

| Vendor            | Product  | Product Features  | Price   |
|-------------------|--|---|---------|
| BMK Ventures Inc. |  <p>PARA-X<br/>BELT FIRST AID KIT<br/>(BFAK)</p> <p>Belt First Aid Kit (BFAK)</p> | <ul style="list-style-type: none"> <li>• Size: 4 x 6 x 1 in</li> <li>• Weight: NP</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ DYNAREX® nitrile gloves, large</li> <li>○ Stretch, Wrap, and Tuck-Tourniquet (SWAT-Tourniquet™)</li> <li>○ H&amp;H Mini Compression Bandage</li> <li>○ QuikClot® Combat Gauze (CG) LE</li> </ul> </li> </ul>          | \$58.93 |
| BMK Ventures Inc. |  <p>Individual Officer Trauma Kit (IOTK)</p>                                      | <ul style="list-style-type: none"> <li>• Size: 8 x 4 x 3 in</li> <li>• Weight: NP</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ DYNAREX® nitrile gloves, large</li> <li>○ SWAT-Tourniquet™</li> <li>○ H&amp;H Mini Compression Bandage</li> <li>○ QuikClot® CG LE</li> <li>○ Beacon™ Chest Seal</li> <li>○ DYNAREX® CPR Shield</li> </ul> </li> </ul> | \$80.26 |

| Vendor             | Product   | Product Features   | Price             |
|--------------------|---|--|-------------------|
| Bound Tree Medical |  <p>Curaplex® Officer Down Basic Individual First Aid (IFAK)</p> | <ul style="list-style-type: none"> <li>• Size:                             <ul style="list-style-type: none"> <li>○ MOLLE-Bag: 7 x 5 x 4 in</li> <li>○ Red pouch: 9 x 6 x 3 in</li> </ul> </li> <li>• Weight:                             <ul style="list-style-type: none"> <li>○ MOLLE-Bag: 1 lb</li> <li>○ Red Pouch: 1.25 lb</li> </ul> </li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ Combat-Application-Tourniquet® (C-A-T®) or SOF Tactical Tourniquet-Wide (SOFTT-W)</li> <li>○ Flat Emergency Trauma Dressing, 4 in</li> <li>○ QuikClot® CG LE</li> <li>○ HALO® Chest Seal, twin pack</li> </ul> </li> </ul> | \$120.99-\$143.99 |
| Bound Tree Medical |  <p>Titan Compact Responder Kit, Intermediate</p>                | <ul style="list-style-type: none"> <li>• Size: 6.5 x 4.5 x 3.5 in</li> <li>• Weight: 1.31 lb</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ C-A-T® or SOFTT-W</li> <li>○ Israeli bandage, 4 in</li> <li>○ QuikClot® CG LE</li> <li>○ Laerdal® face shield</li> <li>○ H&amp;H Compressed Gauze</li> </ul> </li> </ul>   | \$152.99-\$154.99 |
| Bound Tree Medical |  <p>Titan Mid-Level Responder Kit, Intermediate</p>            | <ul style="list-style-type: none"> <li>• Size: 7 x 3 x 7 in</li> <li>• Weight: 1 lb</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ C-A-T® or SOFTT-W</li> <li>○ Israeli bandage, 4 in</li> <li>○ QuikClot® CG LE</li> <li>○ H&amp;H Compressed Gauze</li> <li>○ Duct tape</li> <li>○ HALO® Chest Seal, twin pack</li> <li>○ NPA with lubricant, 28 Fr</li> <li>○ Curaplex® trauma shears, 5.5 in</li> </ul> </li> </ul>  | \$182.99-\$183.99 |

| Vendor                | Product  | Product Features   | Price             |
|-----------------------|--|--|-------------------|
| Bound Tree Medical    |  <p>Titan Mid-Level Responder Kit, Advanced</p>   | <ul style="list-style-type: none"> <li>• Size: 6.5 x 3.5 x 6.5 in</li> <li>• Weight: 1.5 lb</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ C-A-T<sup>®</sup> or SOFTT-W</li> <li>○ Israeli bandage, 4 in</li> <li>○ QuikClot<sup>®</sup> CG LE</li> <li>○ H&amp;H Compressed Gauze</li> <li>○ Duct tape</li> <li>○ HALO<sup>®</sup> Chest Seal, twin pack</li> <li>○ NPA with lubricant, 28 Fr</li> <li>○ Curaplex<sup>®</sup> trauma shears, 5.5 in</li> <li>○ Decompression needle, 14 ga x 3.25 in</li> </ul> </li> </ul>     | \$197.99-\$198.99 |
| North American Rescue |  <p>Individual Patrol Officer Kit (IPOK)</p>      | <ul style="list-style-type: none"> <li>• Size: 4 x 6.5 x 2.75 in</li> <li>• Weight: 7.4 oz</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Black Talon<sup>®</sup> nitrile gloves</li> <li>○ C-A-T<sup>®</sup></li> <li>○ Flat Emergency Trauma Dressing, 4 in</li> <li>○ Celox<sup>™</sup> Gauze, ChitoGauze<sup>®</sup>, or QuikClot<sup>®</sup> CG LE</li> </ul> </li> </ul>  | \$92.99-\$102.99  |
| Rescue Essentials     |  <p>Downed Officers Kit (RE-DOK)</p>            | <ul style="list-style-type: none"> <li>• Size:                             <ul style="list-style-type: none"> <li>○ Kit Only: 6.5 x 3.5 x 2.5 in</li> <li>○ With Holster: 7.75 x 4 x 2.75 in</li> </ul> </li> <li>• Weight:                             <ul style="list-style-type: none"> <li>○ Kit Only: 7.9 oz</li> <li>○ With Holster: 11.6 oz</li> </ul> </li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ C-A-T<sup>®</sup></li> <li>○ Israeli bandage, 6 in</li> <li>○ Celox<sup>™</sup> Rapid Gauze</li> </ul> </li> </ul> | \$77.40-\$89.00   |
| Rescue Essentials     |  <p>Covert Carry Advanced Trauma (CCAT) Kit</p> | <ul style="list-style-type: none"> <li>• Size: 5.75 x 3.75 x 2.25 in</li> <li>• Weight: 10.3 oz</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ SOFTT-W</li> <li>○ H&amp;H Compression Bandage</li> <li>○ QuikClot<sup>®</sup> CG LE</li> <li>○ NPA with lubricant, 28 Fr</li> <li>○ Permanent marker</li> <li>○ Repar<sup>®</sup> Petrolatum Dressing, 4 x 4 in</li> <li>○ Duct tape, 36 in</li> <li>○ Two (2) safety pins</li> </ul> </li> </ul>  | \$98.99           |

| Vendor            | Product   | Product Features   | Price    |
|-------------------|---|--|----------|
| Rescue Essentials |  <p>NAR Eagle IFAK with Combat Gauze</p>       | <ul style="list-style-type: none"> <li>• Size: 8 x 4 x 3 in</li> <li>• Weight: 1.125 lb</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves, large</li> <li>○ C-A-T<sup>®</sup></li> <li>○ Flat Emergency Trauma Dressing, 4 in</li> <li>○ QuikClot<sup>®</sup> CG</li> <li>○ NPA with lubricant, 28 Fr</li> <li>○ HyFin<sup>®</sup> Chest Seal, twin pack</li> <li>○ ARS<sup>®</sup> Air Release System for Needle Decompression, 14 ga x 3.25 in</li> </ul> </li> </ul>   | \$204.50 |
| Rescue Essentials |  <p>Tactical First Response Kit – Advanced</p> | <ul style="list-style-type: none"> <li>• Size: NP</li> <li>• Weight: NP</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves</li> <li>○ SWAT-Tourniquet<sup>™</sup></li> <li>○ Flat Emergency Trauma Dressing, 4 in</li> <li>○ Celox<sup>™</sup> Gauze</li> <li>○ CPR shield</li> <li>○ Trauma shears</li> <li>○ Trauma pad, 5 x 9 in</li> <li>○ HyFin<sup>®</sup> Chest seal</li> <li>○ Combat medic reinforcement tape</li> <li>○ Compressed gauze</li> </ul> </li> </ul>  | \$89.99  |
| Rescue Essentials |  <p>Tactical Medic Kit</p>                   | <ul style="list-style-type: none"> <li>• Size: NP</li> <li>• Weight: NP</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Black Talon<sup>®</sup> nitrile gloves, large</li> <li>○ C-A-T<sup>®</sup></li> <li>○ Trauma dressing, 4 in</li> <li>○ Celox<sup>™</sup> Gauze</li> <li>○ ARS<sup>®</sup> Air Release System for Needle Decompression, 14 ga x 3.25 in</li> <li>○ NPA with lubricant, 28 Fr</li> <li>○ Repara<sup>®</sup> Petrolatum Gauze, 4 x 4 in</li> <li>○ Surgical tape, 2 in x 10 yd</li> <li>○ Two (2) light sticks</li> </ul> </li> </ul> | \$114.99 |

| Vendor  | Product   | Product Features  | Price           |
|---|---|---|-----------------|
| <p>Security Pro<br/>USA</p>                   |  <p>FA142SPG</p>   | <ul style="list-style-type: none"> <li>• Size: 8 x 6 x 3.5 in</li> <li>• Weight: 13 oz</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves</li> <li>○ C-A-T<sup>®</sup></li> <li>○ Israeli bandage, 4 in</li> <li>○ QuikClot<sup>®</sup> EMS Gauze</li> <li>○ Compressed gauze, 4.5 in x 4.1 yd</li> <li>○ Rolled gauze, 4 in</li> <li>○ Surgical tape, 1 in</li> <li>○ Trauma shears</li> </ul> </li> </ul> | <p>\$69</p>     |
| <p>Speer<br/>Operational<br/>Technologies</p> |  <p>SOT-IFAK</p>   | <ul style="list-style-type: none"> <li>• Size: 7.25 x 6 x 2 in</li> <li>• Weight: NP</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves</li> <li>○ SOF Tactical Tourniquet (SOFTT)</li> <li>○ OLAES<sup>®</sup> Modular Bandage</li> <li>○ QuikClot<sup>®</sup> CG LE</li> <li>○ Compressed gauze, 4 in x 4 yd</li> <li>○ MicroBlast</li> </ul> </li> </ul>   | <p>\$172.03</p> |
| <p>TSSi</p>                                   |  <p>TACOPS<sup>®</sup><br/>Individual Officer<br/>Trauma Kit<br/>(IOTK)</p> | <ul style="list-style-type: none"> <li>• Size: 8 x 6 x 3.5 in</li> <li>• Weight: NP</li> <li>• Components:                             <ul style="list-style-type: none"> <li>○ Nitrile gloves</li> <li>○ SOFTT-W</li> <li>○ Emergency bandage, 6 in</li> <li>○ QuikClot<sup>®</sup> CG LE</li> <li>○ Trauma shears</li> <li>○ Chest seal</li> </ul> </li> </ul>  | <p>\$119.35</p> |

Notes:

Information based on data gathered during January-March 2016.

Fr—French catheter

ga—gauge

in—inch(es)

lb—pound(s)

NP—Information not provided

oz—ounce(s)

yd—yard(s)

### 3.1 BMK Ventures Inc. Belt First Aid Kit (BFAK)

The BMK Ventures Inc. Belt First Aid Kit shown in Figure 3-1 costs \$58.93 and includes four items:

1. One pair large DYNAREX<sup>®</sup> nitrile gloves
2. Stretch, Wrap, and Tuck-Tourniquet (SWAT-Tourniquet<sup>™</sup>)
3. H&H Mini Compression Bandage
4. QuikClot<sup>®</sup> Combat Gauze (CG) LE.



**Figure 3-1. BMK Ventures Inc. BFAK**

*Image courtesy of BMK Ventures Inc.*

It measures 4 x 6 x 1 inches, and the weight was not provided by the manufacturer. The items are kept in a nylon case and are vacuum sealed. Each kit comes in a variety of colors, and the contents of the kit can be modified to fit specific needs. The kit has an expiration date of 5 years from the purchase date. The kit does not include a comprehensive warranty, but individual items sustain their manufacturer warranty. This information is shown in Table 3-2.

**Table 3-2. BMK Ventures, BFAK Warranty and Expiry Information**

| Component                           | Warranty                             | Expiry Information |
|-------------------------------------|--------------------------------------|--------------------|
| BFAK Pouch                          | Lifetime warranty                    | 5 years            |
| DYNAREX <sup>®</sup> nitrile gloves | Replacement for manufacturer defects |                    |
| SWAT-Tourniquet <sup>™</sup>        | Replacement for manufacturer defects |                    |
| H&H Mini Compression Bandage        | Replacement for manufacturer defects |                    |
| QuikClot <sup>®</sup> CG LE         | Replacement for manufacturer defects |                    |

### 3.2 BMK Ventures Inc. Individual Officer Trauma Kit (IOTK)

The BMK Ventures Inc. Individual Officer Trauma Kit shown in Figure 3-2 costs \$80.26 and includes six items:

1. One pair large DYNAREX<sup>®</sup> nitrile gloves
2. SWAT-Tourniquet<sup>™</sup>
3. H&H Mini Compression Bandage
4. QuikClot<sup>®</sup> CG LE
5. Beacon<sup>™</sup> Chest Seal
6. DYNAREX<sup>®</sup> CPR Shield



**Figure 3-2. BMK Ventures Inc. IOTK**

*Image courtesy of BMK Ventures Inc.*

The kit measures 8 x 4 x 3 inches, and the weight was not provided by the manufacturer. The items are kept in a nylon case and are vacuum sealed. Each kit comes in a variety of colors, and the contents of the kit can be modified to fit specific needs. The kit has an expiration date of 5 years from the purchase date. The kit

does not include a comprehensive warranty, but individual items sustain their manufacturer warranty. This information is shown in Table 3-3.

**Table 3-3. BMK Ventures Inc. IOTK Warranty and Expiry Information**

| Component                    | Warranty                             | Expiry Information |
|------------------------------|--------------------------------------|--------------------|
| IOTK Pouch                   | Lifetime warranty                    | 5 years            |
| DYNAREX® nitrile gloves      | Replacement for manufacturer defects |                    |
| SWAT-Tourniquet™             | Replacement for manufacturer defects |                    |
| H&H Mini Compression Bandage | Replacement for manufacturer defects |                    |
| QuikClot® CG LE              | Replacement for manufacturer defects |                    |
| Beacon™ Chest Seal           | Replacement for manufacturer defects |                    |
| DYNAREX® CPR Shield          | Replacement for manufacturer defects |                    |

**3.3 BoundTree Medical Curaplex® Officer Down Basic Individual First Aid Kit (IFAK)**

The BoundTree Medical Officer Down Individual First Aid Kit costs between \$120.99-\$143.99 and includes five items:

1. One pair large nitrile gloves
2. Combat-Application-Tourniquet® (C-A-T®) or SOF Tactical Tourniquet-Wide (SOFTT-W)
3. Flat Emergency Trauma Dressing, 4 inches
4. QuikClot® CG LE
5. HALO® Chest Seal, twin pack.

The kit either comes in a MOLLE-compatible bag or in a red pouch. Examples of each are shown in Figure 3-3 and Figure 3-4. Kits in the MOLLE-compatible bag are 7 x 5 x 4 inches and weigh 1 pound; kits in the red pouch are 9 x 6 x 3 inches and weigh 1.25 pounds.



**Figure 3-3. BoundTree Medical Officer Down Basic IFAK, Black MOLLE Bag, C-A-T Tourniquet**



**Figure 3-4. BoundTree Medical Officer Down Basic IFAK, Red Pouch, SOFTT-W**

*Image courtesy of BoundTree Medical*



According to BoundTree Medical, the kits do not have a comprehensive warranty or expiration date. Instead, the components of the kit maintain their original manufacturer warranty, and the expiration date for the kit is dictated by the first expiring product in the kit.

The price difference is based on whether the kit comes in a MOLLE-compatible bag or in a red pouch, and if the tourniquet is included in the kit. The price breakdown is shown in Table 3-4.

**Table 3-4. BoundTree Medical Curaplex® Officer Down Basic IFAK Price Breakdown**

| Kit Name   | Price    |
|--|----------|
| Curaplex® Officer Down Basic IFAK, Red Pouch, SOF Tourniquet         | \$120.99 |
| Curaplex® Officer Down Basic IFAK, Red Pouch, C-A-T Tourniquet       | \$123.99 |
| Curaplex® Officer Down Basic IFAK, Black MOLLE Bag, SOF Tourniquet   | \$140.99 |
| Curaplex® Officer Down Basic IFAK, Black MOLLE Bag, C-A-T Tourniquet | \$143.99 |

### 3.4 BoundTree Medical Titan Compact Responder Kit, Intermediate

The BoundTree Medical Titan Compact Responder Kit, Intermediate (Figure 3-5) costs between \$152.99-\$154.99 and includes six items:

1. One pair nitrile gloves
2. C-A-T® or SOFTT-W
3. Israeli bandage, 4 inches
4. QuikClot® CG LE
5. Laerdal® face shield
6. H&H Compressed Gauze.

The price difference is based on the different tourniquet options. A kit with a SOFTT-W is \$152.99, and a kit with a C-A-T® is \$154.99. The kits come in a MOLLE-compatible bag and in two different colors, black and coyote brown. The kit is 6.5 x 4.5 x 3.5 inches, and weighs 1.31 pounds.

According to BoundTree Medical, the kits do not have a comprehensive warranty or expiration date. Instead, the components of the kit maintain their original manufacturer warranty, and the expiration date for the kit is dictated by the first expiring product in the kit.

It should be noted this kit also comes in a Basic version that does not include a hemostatic agent.



**Figure 3-5. BoundTree Medical Titan Compact Responder Kit, Intermediate**

*Image courtesy of BoundTree Medical*

### 3.5 BoundTree Medical Titan Mid-Level Responder Kit, Intermediate

The BoundTree Medical Titan Mid-Level Responder Kit, Intermediate (Figure 3-6) costs \$182.99-\$183.99 and includes nine items:

1. One pair nitrile gloves
2. C-A-T<sup>®</sup> or SOFTT-W
3. Israeli bandage, 4 inches
4. QuikClot<sup>®</sup> CG LE
5. H&H Compressed Gauze
6. Duct tape
7. HALO<sup>®</sup> Chest Seal, twin pack
8. NPA with lubricant, 28 French catheter
9. Curaplex<sup>®</sup> trauma shears, 5.5 inches.



**Figure 3-6. BoundTree Medical Titan Mid-Level Responder Kit, Intermediate**

*Image courtesy of BoundTree Medical*

The price difference is based on the different tourniquet options. A kit with a SOFTT-W is \$182.99, and a kit with a C-A-T<sup>®</sup> is \$183.99. The kit comes in a MOLLE-compatible pouch and in two different colors, black and coyote brown. The kit measures 7 x 3 x 7 inches and weighs 1 pound.

According to BoundTree Medical, the kits do not have a comprehensive warranty or expiration date. Instead, the components of the kit maintain their original manufacturer warranty, and the expiration date for the kit is dictated by the first expiring product in the kit.

It should be noted the Titan Mid-Level Responder Kit comes in two additional versions, Basic and Advanced. The Basic version does not include a hemostatic agent. The Advanced version is described in Section 3.6.

### 3.6 BoundTree Medical Titan Mid-Level Responder Kit, Advanced

The BoundTree Medical Titan Mid-Level Responder Kit, Advanced (Figure 3-7) costs between \$197.99-\$198.99 and includes 10 items:

1. One pair large nitrile gloves
2. C-A-T<sup>®</sup> or SOFTT-W
3. Israeli bandage, 4 inches
4. QuikClot<sup>®</sup> CG LE
5. H&H Compressed Gauze
6. Duct tape
7. HALO<sup>®</sup> Chest Seal, twin pack
8. NPA with lubricant, 28 French catheter
9. Curaplex<sup>®</sup> trauma shears, 5.5 inches
10. Decompression needle, 14 gauge x 3.25 inches.



**Figure 3-7. BoundTree Medical Titan Mid-Level Responder Kit, Advanced**

*Image courtesy of BoundTree Medical*

The price difference is based on the different tourniquet

options. A kit with the SOFTT-W is \$197.99, and a kit with the C-A-T<sup>®</sup> is \$198.99. The kit comes in a MOLLE-compatible pouch in two different colors, black and coyote brown. The kit measures 6.5 x 3.5 x 6.5 inches, and weighs 1.5 pounds.

According to BoundTree Medical, the kits do not have a comprehensive warranty or expiration date. Instead, the components of the kit maintain their original manufacturer warranty, and the expiration date for the kit is dictated by the first expiring product in the kit.

It should be noted the Titan Mid-Level Responder Kit comes in two additional versions, Basic and Intermediate. The Basic version does not include a hemostatic agent. The Intermediate version is described in Section 3.5.

### 3.7 North American Rescue Individual Patrol Officer Kit (IPOK)

The North American Rescue Individual Patrol Officer Kit (Figure 3-8) costs between \$92.99-\$102.99 depending on the type of hemostatic dressing chosen. The kit includes four items:

1. One pair Black Talon<sup>®</sup> nitrile gloves
2. C-A-T<sup>®</sup>
3. Flat Emergency Trauma Dressing, 4 inches
4. Celox<sup>™</sup> Gauze, ChitoGauze<sup>®</sup> PRO, or QuikClot<sup>®</sup> CG LE



**Figure 3-8. North American Rescue IPOK**

*Image courtesy of North American Rescue*

A kit with Celox<sup>™</sup> Gauze or ChitoGauze<sup>®</sup> PRO costs \$92.99, and a kit with QuikClot<sup>®</sup> CG costs \$102.99. The kit measures 4 x 6.5 x 2.75 inches and weighs 7.4 ounces. The kit is vacuum sealed and does not come with a carrying case, although carrying cases can be purchased separately from the vendor. The kit does not have a comprehensive warranty or expiry information. This information is shown Table 3-5.

**Table 3-5. North American Rescue IPOK Warranty and Expiry Information**

| Component                               | Warranty                              | Expiry Information |
|---|---------------------------------------|--------------------|
| Black Talon <sup>®</sup> nitrile gloves | Replacements for manufacturer defects | NP                 |
| C-A-T <sup>®</sup>                      |                                       | No expiration date |
| Flat Emergency Trauma Dressing          |                                       | NP                 |
| Celox <sup>™</sup> Gauze                |                                       | 5 years            |
| ChitoGauze <sup>®</sup> PRO             |                                       | 3 years            |
| QuikClot <sup>®</sup> CG LE             |                                       | 5 years            |

### 3.8 Rescue Essentials Downed Officers Kit (RE-DOK)

The Rescue Essentials Downed Officers Kit (Figure 3-9) costs between \$77.40-\$89 and includes four items:

1. One pair large nitrile gloves
2. C-A-T<sup>®</sup>
3. Israeli bandage, 6 inches
4. Celox<sup>™</sup> Rapid Gauze.

The kits are vacuumed sealed and the kit measures 6.5 x 3.5 x 2.5 inches, weighs 7.9 ounces, and costs \$77.40 without the holster. With the holster, the kit measures 7.75 x 4 x 2.75 inches, weighs 11.6 ounces, and costs \$89. Purchasers can choose either a black or green MOLLE-compatible holster. The kit has an expiration of 5 years from purchase date. Warranty information was not available.



**Figure 3-9. Rescue Essentials RE-DOK**

*Image courtesy of Rescue Essentials*

### 3.9 Rescue Essentials Covert Carry Advanced Trauma Kit (CCAT)

The Rescue Essentials Covert Carry Advanced Trauma Kit (Figure 3-10) costs \$98.99 and includes nine different components:

1. One pair large nitrile gloves
2. SOFTT-W
3. H&H Compression Bandage
4. QuikClot<sup>®</sup> CG LE
5. NPA with lubricant, 28 French catheter
6. Permanent marker
7. Repara<sup>®</sup> Petrolatum Dressing, 4 x 4 inches
8. Duct tape, 36 inches
9. Two (2) safety pins.

The kit is 5.75 x 3.75 x 2.25 inches and weighs 10.3 ounces. The kit comes in a pouch that can be attached to a belt. The kit has an expiration of 5 years from purchase date. Warranty information for the kit was not available.



**Figure 3-10. Rescue Essentials CCAT**

*Image courtesy of Rescue Essentials*

### 3.10 Rescue Essentials NAR Eagle IFAK with Combat Gauze

The Rescue Essentials NAR Eagle IFAK with Combat Gauze, (Figure 3-11) costs \$204.50 and includes seven items:

1. One pair large nitrile gloves
2. C-A-T<sup>®</sup>
3. Flat Emergency Trauma Dressing, 4 inches
4. QuikClot<sup>®</sup> CG
5. NPA with lubricant, 28 French catheter
6. HyFin<sup>®</sup> Chest Seal, twin pack
7. ARS<sup>®</sup> Air Release System for Needle Decompression, 14 gauge x 3.25 inches.

The kit is 8 x 4 x 3 inches and weighs 1.125 pounds. The components come in a MOLLE-compatible pouch that comes in two different colors. The warranty and expiry information for the kit was not available from the vendor.



**Figure 3-11. Rescue Essentials NAR Eagle IFAK with Combat Gauze**

*Image courtesy of Rescue Essentials*

### 3.11 Rescue Essentials Tactical First Response Kit – Advanced

The Rescue Essentials Tactical First Response Kit – Advanced (Figure 3-12) costs \$89.99 and includes 10 items:

1. One pair nitrile gloves
2. SWAT-Tourniquet<sup>™</sup>
3. Flat Emergency Trauma Dressing, 4 inches
4. Celox<sup>™</sup> Gauze
5. CPR shield
6. Trauma shears
7. Trauma pad, 5 x 9 inches
8. HyFin<sup>®</sup> Chest Seal
9. Combat medic reinforcement tape
10. Compressed gauze.

The kit dimensions and weight were not available. The components come in a vacuum-sealed container designed to fit in a pocket, pouch, or individual bag. The warranty and expiry information was not available from the manufacturer.



**Figure 3-12. Rescue Essentials Tactical First Response Kit – Advanced**

*Image courtesy of Rescue Essentials*

### 3.12 Rescue Essentials Tactical Medic Kit

The Rescue Essentials Tactical Medic Kit (Figure 3-13) costs \$114.99 and includes nine different components:

1. One pair large Black Talon<sup>®</sup> nitrile gloves
2. C-A-T<sup>®</sup>
3. Trauma dressing, 4 inches
4. Celox<sup>™</sup> Gauze
5. ARS<sup>®</sup> Air Release System for Needle Decompression, 14 gauge x 3.25 inches
6. NPA with lubricant, 28 French catheter
7. Repara<sup>®</sup> Petrolatum Dressing, 4 x 4 inches
8. Surgical tape, 2 inches x 10 yards
9. Two (2) light sticks.



**Figure 3-13. Rescue Essentials Tactical Medic Kit**

*Image courtesy of Rescue Essentials*

The kit dimensions or weight of the kit was not available. The components come in a non-vacuum-sealed bag. The warranty and expiry information was not available from the manufacturer.

### 3.13 Security Pro USA FA142SPG

The Security Pro USA FA142SPG uses an item number rather than a product name. An example is shown in Figure 3-14. This kit sells for \$69 and includes eight items:

1. One pair nitrile gloves
2. C-A-T<sup>®</sup>
3. Israeli bandage, 4 inches
4. QuikClot<sup>®</sup> EMS Gauze
5. Compressed gauze, 4.5 inches x 4.1 yards
6. Rolled gauze, 4 inches
7. Surgical tape, 1 inch
8. Trauma shears.



**Figure 3-14. Security Pro USA FA142SPG**

*Image courtesy of Security Pro USA*

The kit is 8 x 6 x 3.5 inches and weighs 13 ounces. The kit comes in a pouch available in five different colors. The kit has an expiration date of 36-48 months (or within the fourth year), and a 1-year warranty.

### 3.14 Speer Operational Technologies SOT-IFAK

The Speer Operational Technologies SOT-IFAK (Figure 3-15) sells for \$172.03 and includes six items:

1. One pair nitrile gloves
2. SOF Tactical Tourniquet (SOFTT)
3. OLAES<sup>®</sup> Modular Bandage
4. QuikClot<sup>®</sup> CG LE
5. Compressed gauze, 4 inches x 4 yards
6. Micro Blast (personal fire suppression device).



**Figure 3-15. Speer Operational Technologies SOT-IFAK**

*Image courtesy of Speer Operational Technologies*

The kit is 7.25 x 6 x 2 inches, and the weight was not provided by the manufacturer. The components come in a pouch that is MOLLE compatible and comes in a variety of colors. The kit does not have a comprehensive warranty or expiration date, but several of the components have individual warranty and expiry information as shown in Table 3-6.

**Table 3-6. Speer Operational Technologies SOT-IFAK Warranty and Expiry Information**

| Component                          | Warranty                             | Expiry Information |
|------------------------------------|--------------------------------------|--------------------|
| Nitrile gloves                     | NP                                   | NP                 |
| SOFTT                              | Replacement for manufacturer defects | No expiration date |
| OLAES <sup>®</sup> Modular Bandage | Replacement for manufacturer defects | 6 years            |
| QuikClot <sup>®</sup> CG LE        | Replacement for manufacturer defects | 5 years            |
| Compressed gauze                   | NP                                   | NP                 |
| Micro Blast                        | 1 year                               | 3 years            |

### 3.15 TSSi TACOPS® Individual Officer Trauma Kit (IOTK)

The TSSi TACOPS® Individual Officer Trauma Kit (Figure 3-16) sells for \$119.35 and includes six items:

1. One pair nitrile gloves
2. SOFTT-W
3. Emergency bandage, 6 inches
4. QuikClot® CG LE
5. Trauma shears
6. Chest seal.



**Figure 3-16. TSSi TACOPS® IOTK**

*Image courtesy of TSSi*

The kit is 8 x 6 x 3.5 inches, and a weight of the kit was not provided by the manufacturer. The components come in a MOLLE-compatible pouch that comes in a variety of colors. Expiry and warranty information was not provided by the manufacturer; however, individual components maintain their individual expiry information as shown in Table 3-7.

**Table 3-7. TSSi TACOPS® IOTK Warranty and Expiry Information**

| Component         | Warranty | Expiry Information |
|-------------------|----------|--------------------|
| Nitrile gloves    | NP       | NP                 |
| SOFTT-W           |          | No expiration date |
| Emergency bandage |          | NP                 |
| QuikClot® CG LE   |          | 5 years            |
| Trauma shears     |          | NP                 |
| Chest seal        |          | NP                 |

## 4. VENDOR CONTACT INFORMATION

Additional information on the individual officer trauma kits included in this market survey report can be obtained from the vendors listed in Table 4-1. Vendors that can create custom kits have been designated with an asterisk (\*) next to their name.

**Table 4-1. Vendor Contact Information**

| Vendor   | Phone Number   | Website/E-Mail Address  |
|--|----------------|---|
| BMK Ventures Inc.                              | (844) 369-1417 | <a href="http://www.bmkventures.com">www.bmkventures.com</a><br>sales@bmkventures.com |
| BoundTree Medical Strategic Response Division* | (800) 533-0523 | <a href="http://www.boundtreesrd.com">www.boundtreesrd.com</a><br>srd@boundtree.com   |
| North American Rescue                          | (864) 675-9800 | <a href="http://www.narescue.com">www.narescue.com</a><br>info@narescue.com           |



| Vendor                          | Phone Number   | Website/E-Mail Address   |
|---------------------------------|----------------|--|
| Rescue Essentials*              | (866) 711-4843 | <a href="http://www.rescue-essentials.com">www.rescue-essentials.com</a><br>info@rescue-essentials.com |
| Security Pro USA                | (800) 264-8273 | <a href="http://www.securityprousa.com">www.securityprousa.com</a><br>info@securityprousa.com          |
| Speer Operational Technologies* | (864) 631-2512 | <a href="http://www.speeroptech.com">www.speeroptech.com</a><br>info@speeroptech.com                   |
| TSSi*                           | (877) 535-8774 | <a href="http://www.tssi-ops.com">www.tssi-ops.com</a><br>customerservice@tssi-ops.com                 |

## 5. SUMMARY

This market survey report provides information on 15 individual officer trauma kits. All kits contain gloves and a tourniquet, pressure bandage, and hemostatic agent; however, the products differ in the brand of components, number and type of additional components, the inclusion of carrying cases, as well as the overall cost, warranty, and expiration dates.

The most commonly included tourniquet is the C-A-T<sup>®</sup>, included in 9 of 15 kits. The second-most commonly included tourniquet is the SOFTT-W, included in 6 of 15 kits. QuikClot<sup>®</sup> CG LE is the most commonly included hemostatic dressing, included in 10 of 15 kits. The second-most common hemostatic dressing is Celox<sup>™</sup> Gauze, included in 3 of 15 kits.

Several kits include additional components. The most common additional components include chest seals, rolled or compressed gauze, NPAs, and trauma shears. In addition, some vendors will create custom kits in order to meet the specific requirements of an agency.

Emergency responder agencies that consider purchasing individual officer trauma kits should carefully research each product's overall capabilities and limitations in relation to specific operational needs.