

Clinical Review

Safety Blood Lancets (Needle & Blade)

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Guidance for use

This clinical evaluation report is aimed primarily at the NHS and all those working to support patient care.

Please note that the product assessment results should only be read and used in conjunction with the full text of this clinical review.

Publication September 2018:

Correction to report matrices

1. Introduction

The NHS Clinical Evaluation Team was established in April 2016. The team's remit is to add independent clinical review to 'everyday healthcare consumables' used by the NHS.

Everyday healthcare consumables are products that are found in the majority of wards, clinics, health centres, treatment rooms and district nurses' bags across the NHS. The purpose of this report is two-fold: firstly, to provide a clinical assessment of the usability and requirements from the NHS for Single-Use Safety Blood Lancets that are available to the NHS from the national procurement provider (NHS Supply Chain) and secondly, to provide a clinical overview of functions and properties that the clinicians in the NHS require of Single-Use Safety Blood Lancets.

It is apparent that Single-Use Safety Blood Lancets featured in this report, are everyday healthcare consumables that are found in most clinics, wards and within mobile health services. They would certainly be items included in any stock list to set up a new clinical service. On that basis, the project was approved by the Clinical Reference Board and culminates in the production of this report for their approval in August 2018.

Based on data collected over a period of 12 months, supplied by the current national provider, NHS Supply Chain who have approximately 80% of the market share, the NHS purchases over 50 million Safety Blood Lancets annually.

There are 114 Single-Use Safety Blood Lancets in this category reviewed by NHS CET which are provided by 20 different suppliers. There are a variety of different products available, however, for the purposes of evaluation, only those products currently available through NHS Supply Chain have been included in the evaluation. This report covers the range of products available as of September 2017

Information on Single-Use Safety Blood Lancets was collated from a variety of sources to provide further details on the current evidence available to support the way in which the devices are designed and clinically evaluated.

Following this information gathering, clinical conversations were held nationwide with the aim of defining important clinical criteria for Single-Use Safety Blood Lancets from frontline NHS clinicians; identifying what was important, and what was unnecessary, together with additional factors that can truly only be identified by clinicians using these products in everyday practice. With each conversation the clinical criteria was further reviewed, developed and refined to reflect the national opinion.

The national clinical conversation events provided a lot of rich information from generalists and specialists from diverse clinical fields. It was recognised that Diabetes Nurse Specialists, amongst others, are key clinical stakeholders in this project. Further conversations took place with individual specialists from various backgrounds. This information was reviewed and also used to develop clinical criteria for Single-Use Safety Blood Lancets, against which all brands available from the national procurement provider were reviewed.

Findings from these clinical reviews are collated into a product assessment report to allow users to identify products and see how they performed against the agreed clinical criteria.

A more detailed description of the team and our pathway approach can be found in the NHS Clinical Evaluation Team operating manual which can be found on our website at: www.supplychain.nhs.uk/CET

2. Clinical Context

2.1 Clinical Definition and Scope

This report is concerned with Single-Use Safety Blood Lancets and Blades only. Excluded products include multi-use devices intended for use by patients at home, laser lancing devices and developing smart wearable technology.

The Single-Use Safety Blood Lancets are categorised into 2 groups:

- Needle - This is used primarily on the finger for Adults/Paediatrics.
- Blade – This is used primarily on the heel for Newborn and Neonatal Babies.

Suppliers often produce a range of products within a Brand which include both lancets and blades in a variety of sizes and penetration depths.

2.2 Intended Clinical Use

Single-Use Safety Blood Lancets are used to produce a small sample of capillary blood for medical testing in both primary and secondary care environments.

Capillary blood sampling is the preferred method of blood specimen collection for newborn babies and infants, blades are used in Paediatric and Neonatal Care to obtain sufficient volumes of blood.

Developments within laboratory testing have seen an increase to the number of blood tests that can be carried out using capillary sampling (Dalton, 2017)

2.3 Clinical Practice

Obtaining a capillary blood sample is a core skill for clinical staff and some care staff. Single-Use Safety Blood Lancets are used in the majority of clinical environments and patients can be exposed to a significant number of episodes all of which will cause an element of pain, as such it is important that the products meet the expectations of users and patients.

2.4 Clinical Impact

Poorly performing products can lead to a patient having to be repeatedly skin pricked to obtain a suitable quantity of capillary blood.

A poorly performing product increases the risk to patients and clinicians from needle stick injuries, reduced confidence of users and poor patient experience.

Complications that can arise in capillary sampling include:

- collapse of veins if the tibial artery is lacerated from puncturing the medial aspect of the heel;
- osteomyelitis of the heel bone (calcaneus);

- nerve damage if the fingers of neonates are punctured;
- haematoma and loss of access to the venous branch used;
- scarring;
- localized or generalized necrosis (a long-term effect);

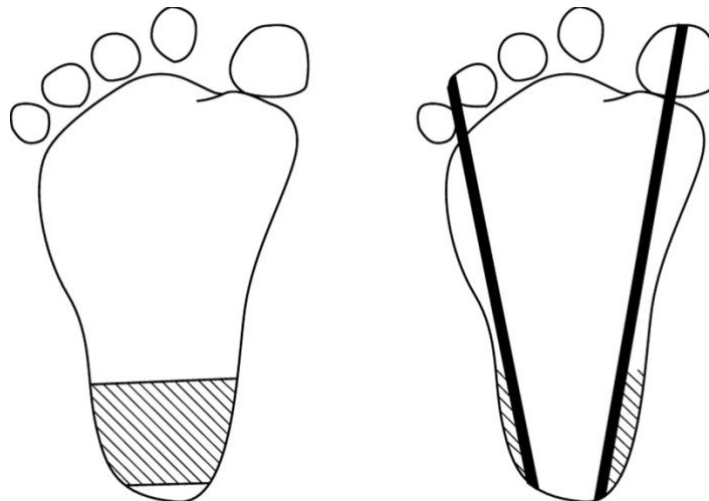
2.5 Other Clinical Considerations

Multi-patient devices intended for use on multiple patients in clinics, nursing homes, care homes and hospitals are no longer recommended for use, although the lancet needle is changed between patients their remains a high risk of disease transmission between patients. (Centers for Disease Control and Prevention, 2004), (Dreesman, et al., 2006), (Louie, et al., 2005)

2.5.1. Testing Sites

In Adults, the finger is usually the preferred site for capillary testing. The sides of the heel are only used in paediatric and neonatal patients. Ear lobes are sometimes used in mass screening or research studies.

In paediatric and neonatal care some patients can have a significant number of samples taken (Rutter & Barker, 1995). The current standard based upon a post mortem study (Blumenfield, et al., 1979) recommends lateral borders of the plantar surface (Right Foot in image), more recent studies (Jain & Rutter, 1999) have found that lancets can be used safely anywhere over the plantar surface of the heel (Left Foot in image) which minimises tissue damage and reduces risk of hypersensitivity, however the guidelines have not been changed and local decisions should be made.



2.6 Product Technical Design

2.6.1. Needle Lancets

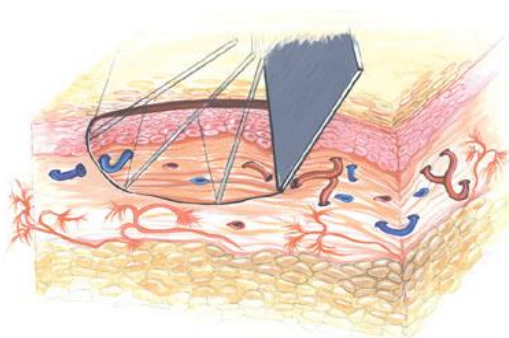
Single-Use Safety Blood Lancets are designed, when activated, to fire a needle from the protective shield puncturing the skin before retracting automatically where they cannot be re-used and minimise the risk of needle stick injuries, as per EU requirements on the prevention of sharp injuries in the healthcare sector.

There are 2 types of device activation;

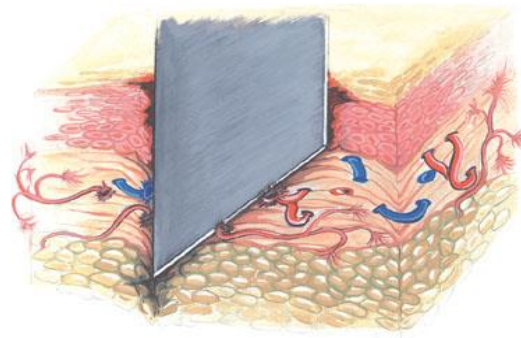
1. Pressure type where good contact is maintained and the device triggers automatically
2. Top Button or Side Trigger type where the operator has control over the moment of activation

2.6.2. Blade Lancets

Blade lancets also come in 2 types; those that puncture and those that incise the skin. It is reported that lancet blades that incise cause less pain and provide a better sample of blood than blades that puncture. (Vertanen, et al., 2001)



Blade incising the capillary bed



Blade penetrating the capillary bed

2.6.3. Choosing the correct Single-Use Safety Blood Lancets

Adult

A lancet slightly shorter than the estimated depth needed should be used because the pressure compresses the skin; thus, the puncture depth will be slightly deeper than the lancet length. In one study of 52 subjects, pain increased with penetration depth, and thicker lancets were slightly more painful than thin ones (Fruhstorfer, et al., 1999). However, blood volumes increased with the lancet penetration and depth.

Paediatric / Neonatal

Too much compression should be avoided, because this may cause a deeper puncture than is needed to get good flow. Blade penetration depth should be less than 2.4mm, all blades we tested were 2mm or less.

Condition	Heel-prick	Finger-prick
Age	Birth to about 6 months	Over 6 months
Weight	From 3–10 kg, approximately	Greater than 10 kg
Placement of lancet	On the medial or lateral plantar surface	On the side of the ball of the finger perpendicular to the lines of the fingerprint
Recommended finger	Not applicable	Second and third finger (i.e. middle and ring finger); avoid the thumb and index finger because of calluses, and avoid the little finger because the tissue is thin

(World Health Organisation, 2010)

2.6.4. Lancet Spread.

The tables below help illustrate the variety of needle / blade configurations and thus the difficulty in comparing like for like and the lack of a defined standard.

Needle Lancet

Needle Lancet								
Supplier	Brand	Gauge						
		18g	21g	23g	25g	26g	28g	30g
		Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm
BD								
	Microtainer		1.8mm					1.5mm
	Sentry Safety Lancets			1.8mm			1.5mm	
Beacon Healthcare								
	Medex							
Cambridge								
	Microdot			2.2mm		1.8mm	1.8mm	1.8mm
GlucRx								
	GlucRx			2.2mm		1.8mm	1.8mm	1.6mm
Greiner Bio-one								
	Minicollect		1.8mm + 2.4mm		1.5mm			1.2mm
Henry Schein								
	Safe T Pro Plus			Multi				
Home Health								
	Home Health		2.2mm					
Matz Medical								
	Matz		2.4mm				1.8mm	
Medline								
	Prolance	1.8mm	1.8mm		1.4mm		1.6mm	
Owen Mumford								
	Unistik 3	1.8mm	2mm	1.8mm			1.8mm	1.5mm
	Unistik Touch		2mm	2mm			1.8mm	1.5mm
Prospect								
	Acti-Lance			1.8mm				
	Haemolance+	1.8mm	1.8mm		1.4mm		1.6mm	
Radiometer								
	Prolance	1.8mm	1.8mm		1.4mm			
Roche								
	Safe-T-Pro Uno						1.5mm	
Sarstedt Ltd								
	Sarstedt	1.8mm	1.8mm				1.6mm	
Smiths								
	Safe-T-Lance Plus	1.8mm	1.8mm		1.4mm		1.6mm	
Spirit								
	Medlance Plus		1.8mm + 2.4mm		1.5mm			
	Vitrex Sterilance Flex						Multi	
	Vitrex Sterilance Lite II		1.8mm + 2.4mm			1.8mm + 2.4mm	1.8mm	1.8mm
	Vitrex Sterilance Press II	1.8mm	1.8mm + 2.2mm + 2.8mm					
Vital Care								
	Vitrex Sterilance Flex					Multi	Multi	
	Vitalcare Lite 3		1.8mm + 2.4mm + 2.8mm			1.8mm		

Blade Lancer

Blade Lancer												
Supplier	Brand	0.8mm	0.94mm	18g	1.4mm	1.5mm	1.75mm	2.5mm	2.8mm	3mm	Depth mm	Depth mm
BD		Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm	Depth mm
	Microtainer					2mm						
	Quikheel						0.85mm	1mm				
Beacon Healthcare	General				Unknown Details							
Central Medical	Gentleheel				0.65mm		0.85mm	1mm				2mm
Greiner Bio-one	Minicollect	2mm										
Medline						1.2mm + 1.6mm						
	Prolance											
Owen Mumford	Unistik Tiny Touch						0.85mm	1mm				
Prospect						1.2mm + 1.6mm						
	Haemolance+											
Sarstedt Ltd						1.2mm + 1.6mm						
	Sarstedt											
	Sarstedt Safety-Heel						0.85mm	1mm				
Smiths												
	Neoheel				0.65mm		0.85mm	1mm				2mm
	Safe-T-Lance Plus					1.2mm + 1.6mm						
Spirit												
	Medlance Plus	2mm										
	Steriheel						0.85mm	1mm				1.14mm
	Vitrex Sterilance Lite II			1.8mm								
Werfen												
	Tenderfoot				0.65mm		0.85mm	1mm				2mm
	Tenderlett		1.75mm									

3. Pathway Methods

Collated evidence has been used as a basis, alongside supplier submitted evidence, to help form initial ideas about product use, performance and requirements. This contributed to the development of the initial clinical criteria for Single-Use Safety Blood Lancets which was then taken to frontline clinical staff at national engagement events for development and validation.

3.1 Intelligence Gathering

In preparation of the criteria, account has been taken of academic and related clinical evidence, known guidance and nationally recognised publications as further described in this Section 3.

All suppliers listed within the national framework were invited to submit relevant evidence, product information and testing data to help support the review.

Account has also been taken of appropriate international and other standards as they pertain to the devices (e.g. ISO, EN and/or BSI). A review of MHRA alerts has also been carried out.

Finally, the specification used by NHS Supply Chain has been reviewed to understand what has previously been asked of suppliers of these devices.

Evidence from these sources has then been used as a basis to help form initial ideas around suitable clinically based statements of what clinical staff need from Single-Use Safety Blood Lancets and how it should perform in order to satisfy those identified clinical requirements.

3.1.1. Literature search

A literature search has been undertaken to establish what current academic knowledge exists on the products for evaluation. It should be noted that the team have not conducted a comprehensive or systematic review of literature. However, the team have interrogated the information to look for common themes which supported the development of the clinical criteria.

Initially, an evidence search was performed across the NICE service using the generic term Lancet in the following areas;

- Pathways - <https://pathways.nice.org.uk/>
- Guidance - <https://www.nice.org.uk/guidance/published>
- Clinical Knowledge Summaries - <https://cks.nice.org.uk>

All searches returned no results.

Whilst this is not a full academic literature search, Ebscohost search platform was used;

- Safety Lancet – Across All health databases, between 2000 and 2017 produced 37 results

Results showed limited relevance and or transferability to this study.

- Single Use Lancet & Disposable Lancet returned no relevant results

Generalised searches including using Google Scholar produced information but little supporting evidence.

3.1.2. National procurement provider specification

As the national procurement provider, NHS Supply Chain manages a framework of suppliers who are then listed in the national catalogue. The framework covers a wider selection of products than just Single-Use Safety Blood Lancets

The specification used by the national provider (NHS Supply Chain, 2017) has been reviewed to understand what has previously been asked of suppliers of these devices.

The specification includes, for example, the following;

- All products must be designed to help users meet the EU requirements on the prevention of sharp injuries in the healthcare sector
- Lancing systems must be suitable for use on adult, paediatric or neonatal patients
- Lancets must penetrate between 0.6mm and 3.0mm to expose sufficient blood vessels to provide an adequate blood flow.
- Lancet systems must be single use.

The specification also includes the provision for multi-patient systems which is discussed in section 2.5.

This has resulted in a framework that is significant in size with manufacturers producing the same Single-Use Safety Blood Lancets for multiple suppliers.

3.1.3. National and international safety and quality standards

The Medicines and Healthcare products Regulatory Agency (MHRA) website (<https://www.gov.uk/drug-device-alerts>) returned 1 product alert which has been resolved relating to this product category against the search terms previously described.

Account has also been taken of appropriate international and other standards as they pertain to the devices (e.g. from the International Organisation for Standardisation (ISO), European Standards (EN) and/or British Standards Institution (BSI).

Medical Device Directive 93/42/EEC as amended, currently in transition to the new Medical Device Regulation MDR 2017/745

- All products classified as a Medical Device must have their CE marking clearly evident on the product and/or packaging and meet the requirements set out within the standard(s) related to labelling.

BS EN ISO 15223-1-2016

- Symbols to be used with Medical Device Labels

Control of Substances Hazardous to Health Regulations 2002 (as amended)

- Safety Data Sheets

3.1.4. Product suppliers and manufacturers

All suppliers listed within the national framework were invited to submit relevant evidence, product information and testing data to help support the review.

The majority of suppliers provided a range of information from product brochure through to technical datasheets and evidence of compliance with standards.

3.1.5. Quality of evidence

Levels of evidence sometimes referred to as hierarchy of evidence are assigned to studies based on the methodological quality of their design, validity, and applicability to patient care.

All the evidence for Single-Use Safety Blood Lancets collected by the methods previously described, at best, scored Level 4 while most would be classed as Level 6 or 7.

(Melnik & Fineout-Overholt, 2005, p. 10)

Hierarchy ranking	Description
Level 1	A systematic review of all relevant randomised controlled trials (RCT) or evidence-based clinical practice guidelines based on systematic reviews of RCT evidence
Level 2	Evidence from at least one well designed RCT
Level 3	Evidence from well-designed controlled trials; non-randomised, quasi experimental
Level 4	Well-designed case control & cohort studies
Level 5	Systematic reviews of descriptive and qualitative studies
Level 6	Evidence from a single, descriptive or qualitative study
Level 7	Evidence from the opinion of authorities and/or reports of expert committees

3.2 Best Practice Guidelines

The guidelines for best practice are published by the World Health Organisation (2010) with particular reference to Chapter 7 - Capillary Sampling.

<https://www.ncbi.nlm.nih.gov/books/NBK138654/>

4. NHS Clinical Engagement

In order to develop a shared vision of what is required from Single-Use Safety Blood Lancets several methods of engagement were used. These events were used to formulate thoughts, ideas and needs from different clinicians familiar with these products; identifying their own expectation(s) of the product for their given patient group, and intended patient outcome, being used in a variety of differing clinical environments.

Mapping exercises were undertaken to determine personnel that should be involved and/or consulted regarding these products. This stage of the report focused on clinical staff who are either:

- a) recognised as subject experts, and/or
- b) recognised regular users of the devices in their clinical practice.

Various methods of engagement were undertaken to ensure these clinical opinions were robust, and validated by peers from around the country, options of engagement included:

- Regional and national face-to-face events with NHS clinical colleagues
- Focussed visits to NHS clinicians regional and national face-to-face events
- Website subscription
- Attendance at specialist network events
- Attendance at NHS Business Services Authority events
- Web-based surveys and e-engagement tools (e.g. email, WebEx, portal based surveys)

4.1 Clinical Conversations

To build a broad caucus of attendees at our events letters were sent inviting Trusts to nominate clinical colleagues to attend a series of regional group events. These were hosted by NHS organisations throughout England to enable the widest possible access for all invited. This set aside any pre-existing regional variance.

Details of the discussion outcomes were recorded online or in workbook from the open events, transcribed and then used together with the evidence gathered at the previous project stage to inform a list of clinical criteria against which the product has been tested.

4.2 Report Limitations

Specialist independent laboratory advice was sought regarding the possibility of developing suitable tests which would add information to aid users with an appropriate and legitimate comparison option.

The evidence discovered that, at the time of writing, there is yet to be a standard test which can replicate skin capillary bed conditions and thus clinical in-situ testing was considered. However, to independently acquire sufficient patient data, which would

capture the variety of skin types and clinical conditions to have validity, was also deemed prohibitive due to the number of products on the framework and the ethical implications of testing on patients or volunteers.

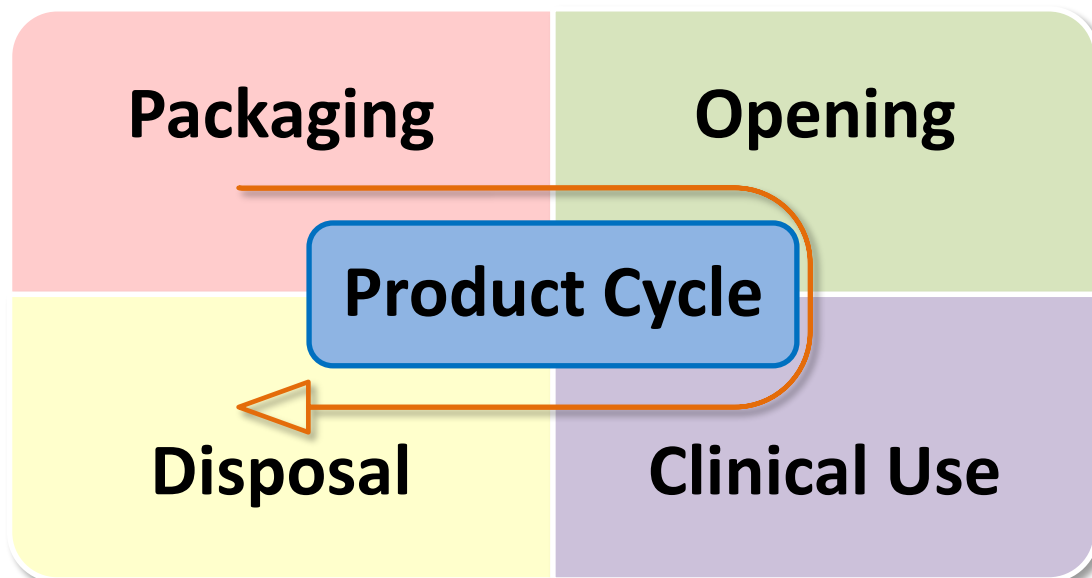
Suppliers were therefore asked to provide supporting blood volume information for their products. Whilst it is acknowledged that there are a wide range of variables which will influence the volume, it was felt that this would be a useful inclusion.

It is therefore recommended that this report is used as a guide only.

4.3 Clinical Criteria

The data received from all the NHS clinical conversation events, alongside the data collected from individual experts, was assimilated into a series of clinical criteria.

The clinical criteria were formulated to move through the key aspects of product use using the NHS Clinical Evaluation Team product cycle:



NHS Clinical Evaluation Team Product Cycle

A clinical criterion is defined for the purposes of this report as a principle or standard by which products may be evaluated. It is a statement which describes the clinician's requirements for the product.

The proposed criteria were validated by workshop attendees and all other clinical experts engaged in the development process. In addition, other clinical experts who are likely to add further useful insight were also included, leading to the finalised clinical criteria listed below.

CLINICAL CRITERIA

Package Labelling	Is it easy to identify the Product Type e.g.(Needle / Blade)
	Is it easy to identify the product penetration depth
	Is it easy to identify product gauge or length of incision
	Is there any indication on the box of expected blood volume
	Does the box packaging clearly show the details for the product inside and not the range or a generic image
	Is the IFU displayed on the Packaging or as an IFU leaflet
	Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life clearly visible
Opening & Preparation	Easy to know how to use (intuitive)
	Can the box be used as a dispenser (e.g. not too small or flimsy)
	Number of steps required to prepare the device for use
	The product can be prepared without any premature activation
Clinical use	Ease of positioning over puncture site
	Indication of activation (Audible click)
	Force required for activation (Ease of activation)
	The product activates every time %
	The lancing end of the lancet is clear and distinctive
	Feel in the hand, secure in the grip
	After the initial activation the lancet does NOT continue to click or give an impression of firing.
Disposal	Can a used lancet be differentiated against an unused one
	Following activation the needle is fully retracted
	The device cannot be rearmed
	Is the product suitably robust so that it is unable to be broken open by hand without tools?
	Does the box packaging indicate ability for standard recycling?

4.3.1. Criteria explanation- Inclusion

Detailed below are some of the additional discussions related to several criteria, particularly around consideration for inclusion or whether there should be scientific testing to provide comparison.

- Force required for activation

Feedback from NHS professionals at national clinical conversations highlighted that clinicians found variance in the ease of deploying lancets, suggesting that in some circumstances the force required could lead to increased patient trauma, undue stress to both healthcare professional and patient, and increased time for sample uptake. Further clinical conversations have taken place on this specific topic which have highlighted that a mean pressure force index would not be relatable to actual practice, and thus be of less value, especially considering the variability of patient, in terms of skin turgidity, tissue density, bony prominence etc, as such we explored a subjective evaluation for ease of activation to evaluate this criterion.

- Is there any indication on the box of expected blood volume

A number of suppliers indicate on the packaging, information for use (IFU) leaflets or sales materials the differing expected blood volumes for their range of products normally using either a blood droplet scale guide (1 drop to 5 drops) or as text (low flow, high flow etc).

It is acknowledged that the volume of blood obtained is varied between patients due to the many factors (for instance, arterialisation, patient circulation, dehydration, blood pressure and pressure applied by clinician) although there is no common scale used amongst the different suppliers which will be discussed in the future recommendations section., However in the instances where clinicians have a choice of lancet it was felt that this information would be useful if displayed on the packaging to act as a guide for selecting the most appropriate product..

- Is the product suitably robust so that it is unable to be broken open by hand without tools?

Single-Use Safety Blood Lancets are a sharps product and as such should be disposed of immediately after use. However a common theme from conversations was the risk of the lancets breaking open if poorly designed or dropped on the floor and the risk of the small needles becoming exposed, it was therefore felt that this needed to be included in the evaluation.

4.3.2. Criteria explanation- Exclusion

To capture true representation of clinical opinion, this report also aims to capture criteria that were raised, but not included as final criteria when the evaluation of Single-Use Safety Blood Lancets took place.

- Is there any indication on the box of suitable blood tests

As previously discussed there are a number of variables that can impact on the expected blood flow and whilst providing information on what suitable tests could be of use to clinical staff this range is far too exhaustive to begin to document on the packaging. Clinicians told us that it was better for the patient to obtain a sample size that is more than adequate than have to be re-pricked to get a suitable volume of blood or in situations where multiple tests are required from the same puncture site.

4.4 Product Evaluation

Evaluation methodologies are defined for each and every clinical criterion. They reflect a simulated clinical environment.

Wherever possible, products were supplied in a 'ward ready' unit of issue as would be found by clinical staff on accessing a store area in their clinical environment. Where this has not been possible it was acknowledged as part of the product assessment results matrix.

The evaluation product was ordered and picked from the NHS distribution centres. Products evaluated have been stored post evaluation for a period of three months after publication of this review.

Practicing NHS clinical staff were invited to review the products in accordance with the developed criteria. It was not possible to 'blind' the evaluations; in the sense that the evaluators were aware of the product brand; however, the product to be evaluated was independently picked in accordance with the product selection criteria in Section 2 and prepared for evaluation by colleagues who were not otherwise involved in the process.

Each clinical evaluator entered data independently and without inter-rater comparison into their own workbook. These were then collated, reviewed and summarised by the clinical specialist lead for the project.

As part of the evaluation preparation, each evaluator was given a more detailed and product specific definition for each of the scores

The defined criteria either prompted a 'yes/no' answer, which has been represented with a ✓ / X, or a score was given between 0 and 3 as follows:

Score	Meaning
0	This does not meet the criteria
1	This partially meets the criteria
2	This meets the criteria
3	This exceeds the criteria

NHS Clinical Evaluation Team scoring methods

These numerical scores across all evaluators were totalled and a mean value determined. This mean value has then been converted into a star rating (see matrix below).

The mean values convert to a star rating in accordance with the following table:

Point scored		Star value	
0	to 0.99	0	stars
1	to 1.24	1	Star
1.25	to 1.74	1.5	Stars
1.75	to 2.24	2	Stars
2.25	to 2.74	2.5	Stars
2.75	to 3	3	Stars

Conversion of mean scores to star rating

Evaluators were also encouraged to record comments where they felt it necessary to provide rationale for their scoring and answers.

The results obtained have been validated by the NHS Clinical Evaluation Team moderation committee for consistency of scoring and interpretation. These results are presented in the product assessment reports herein.

5. Product Assessment Results

The following product assessment results pages show the tested clinical criteria listed vertically on the left-hand side of the page with the tested device found horizontally across the top of the matrix. The accompanying photographs were taken during evaluation. These photographs are of sample products provided for evaluation. Lot numbers were recorded and samples have been retained in storage following the completion of evaluation.

The products represented are the range of suppliers and brands available through the NHS national procurement provider's framework as of September 2017.

The product assessment results have been provided in 2 sections;

1. Listed by Supplier.
2. Listed by Sub-category based upon their type as illustrated below:



6. Using the Product Assessment Results Matrix

The clinical criteria displayed are designed to capture key clinical elements that health professionals may wish to consider when reviewing/selecting products for their own clinical practice. The report is intended as a guidance tool to aid product selection and is not intended to be a universal determination of the clinical effectiveness of any particular product. Each clinical practitioner should therefore make their own assessments taking into account all relevant considerations for their particular situation.

Not all clinical criteria cited in the report will be relevant or important in all environments,

E.g. does the box packaging clearly show the details for the product inside and not the range or a generic image?

A GP's practice which only has 1 lancet available for use may not be interested if the packaging displays a variety of products on the box, however a hospital unit with a range of products for the user to choose from could find this particularly useful.

Likewise not all clinical criteria will be relevant or important for all patient groups.

Clinicians may identify the criteria that most represent their clinical environment and patient demographic, and may choose to build their own hierarchy of importance to aid product(s) selection for patient outcome goals using the matrix presented in this report, their own clinical knowledge, as well as any other resources (including publications) to provide informed choice and transparency of their decision for product(s) being used.

SINGLE USE SAFETY BLOOD LANCETS

– Type: Needle (Page 1)



	BD		CAMBRIDGE SENSORS	BEACON HEALTHCARE
BRAND	BD Microtainer® Contact-Activated Lancet	BD Sentry™ Safety Lancet	Microdot	Medex
MANUFACTURER	BD	BD	Intrinsyk Medical Devices	N/A
TYPE OF LANCET	Needle	Needle	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	100	200	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Top Button	Pressure	N/A
PENETRATION METHOD	Puncture	Puncture	Puncture	Puncture
FEATURE				
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	21G x 1.8mm (200 to 520µl) 30G x 1.5mm	23G x 1.8mm 25G x 1.5mm	23G x 2.2mm = (8-25µl) 26G x 1.8mm = (6-15µl) 28G x 1.8mm = (2-10µl) 30G x 1.8mm = (0.1-3µl)	??G X 1.8mm
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (1.50)	★★★ (2.00)	★★★ (2.00)	Product not available for evaluation
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.67)	★★★★ (2.67)	
Is it easy to identify product guage or length of incision	★★★ (2.17)	★★★★ (2.33)	★★★★ (2.67)	
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.17)	★★★ (2.17)	★★★★ (2.33)	
Is the IFU displayed on the Packaging or as an IFU leaflet	Both	Packaging	Packaging	
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.83)	★★★★ (2.50)	★★★ (2.17)	
Easy to know how to use (intuitive)	★★★ (2.21)	★★★★ (2.29)	★★★ (2.14)	
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.86)	★★★ (1.57)	★★★ (2.00)	
Number of steps required to prepare the device for use	1	1	1	
The product can be prepared without any premature activation	★★★★ (2.36)	★★★ (1.86)	★★★ (2.00)	
Ease of positioning over puncture site	★★★ (2.07)	★★★ (1.86)	★★★ (2.00)	
Indication of activation (Audible click)	★★★ (2.36)	★★★★ (2.57)	★★★★ (2.57)	
Force required for activation	★★★★ (2.29)	★★★ (2.00)	★★★★ (2.29)	
The product activates everytime %	95.7%	100%	97.1%	
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★★ (2.57)	★★★ (2.14)	
Feel in the hand, secure in the grip	★★★★ (2.57)	★★★ (1.86)	★★★ (2.14)	
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.43)	★★★★ (2.43)	★★★ (2.14)	
Can a used lancet be differentiated against an unused one	★★★ (1.64)	★★★ (1.86)	★★★ (0.86)	
Following activation the needle is fully retracted	✓	✓	✓	
The device cannot be rearmed	★★★ (2.43)	★★★★ (2.29)	★★★★ (2.29)	
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)	
Does the Packaging indicate ability for standard recycling	✓	✗	✗	

SINGLE USE SAFETY BLOOD LANCETS

– Type: Needle (Page 2)



GLUCORX



GREINER BIO-ONE



HENRY SCHEIN



HOME HEALTH



BRAND	GlucorX	Minicollect	Accu-ChekSafe T Pro Plus	Home Health
MANUFACTURER	Shanghai Carelife International	HTLSTREFA-SA	Roche	Shandong Lianfa Ltd
TYPE OF LANCET	Needle	Needle	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100	200	200	300
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Pressure	Top Button	Pressure
PENETRATION METHOD	Puncture	Puncture	Puncture	Puncture
FEATURE			Multi Depth 3 settings	
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	23G x 2.2mm = (75-125µL) 26G x 1.8mm = (30-75µL) 28G x 1.8mm = (5 - 30µL) 30G x 1.6mm = (4 - 20µL)	21G x 1.8mm 21G x 2.4mm 25G x 1.5mm 30G x 1.2mm	23G x Multi Depth (1.3, 1.8, 2.3mm)	21G x 2.2mm = (20 - 50µl)
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.33)	★★★ (2.17)	★★★ (2.00)	★★★ (2.67)
Is it easy to identify the product penetration depth	★★★ (2.50)	★★★ (2.50)	★★★ (2.00)	★★★ (2.67)
Is it easy to identify product guage or length of incision	★★★ (2.67)	★★★ (2.17)	★★★ (2.00)	★★★ (2.67)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.50)	★★★ (2.00)	★★★ (2.50)	★★★★ (3.00)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Packaging	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (2.00)	★★★★ (3.00)	★★★★ (2.50)	★★★★ (2.67)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)	★★★ (1.86)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★★ (2.57)	★★★ (0.00)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★★★ (1.71)	★★★ (1.93)	★★★★ (2.29)	★★★ (2.00)
Ease of positioning over puncture site	★★★ (1.86)	★★★ (1.81)	★★★ (1.86)	★★★ (2.00)
Indication of activation (Audible click)	★★★ (2.43)	★★★ (2.43)	★★★ (2.14)	★★★ (2.57)
Force required for activation	★★★ (2.29)	★★★ (2.29)	★★★ (2.00)	★★★ (2.29)
The product activates everytime %	97.1%	97.9%	100%	97.1%
The lancing end of the lancet is clear and distinctive	★★★ (2.43)	★★★ (2.00)	★★★★ (2.57)	★★★ (2.14)
Feel in the hand, secure in the grip	★★★ (2.00)	★★★ (1.89)	★★★★ (2.29)	★★★ (2.14)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.29)	★★★ (2.14)	★★★ (1.86)	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (2.00)	★★★ (1.71)	★★★ (1.14)	★★★ (0.86)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)	★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗	✗	✓	✗

SINGLE USE SAFETY BLOOD LANCETS

– Type: Needle (Page 3)



MATZ MEDICAL



MEDLINE INDUSTRIES



OWEN MUMFORD












BRAND	Matz Medical	Prolance	Unistik 3	Unistik Touch
MANUFACTURER	N/A	HTLSTREFA-SA	Owen Mumford	Owen Mumford
TYPE OF LANCET	Needle	Needle	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100	200	100	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Top Button	Side Trigger	Pressure
PENETRATION METHOD	Puncture	Puncture	Puncture	Puncture
FEATURE			Pain reducing feature Lot # etched on Product	Pain reducing feature Lot # etched on Product
RANGE (GUAGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	21G x 2.4mm 28G x 1.8mm	18G X 1.8mm 21G x 1.8mm 25G x 1.4mm 28G x 1.6mm	18G x 1.8mm (240µl Maximum) 21G x 2mm (172µl Maximum) 23G x 1.8mm (130µl Maximum) 28G x 1.8mm (158µl Maximum) 30G x 1.5mm (82µl Maximum)	21G x 2mm (173µl Maximum) 23G x 2mm (165.1µl Maximum) 28G x 1.8mm (110.1µl Maximum) 30G x 1.5mm (58.2µl Maximum)
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★★ (2.67)	★★★★ (2.33)	★★★★ (2.33)
Is it easy to identify the product penetration depth	★★★★ (2.33)	★★★★ (2.67)	★★★★ (2.83)	★★★★ (2.83)
Is it easy to identify product guage or length of incision	★★★★ (2.50)	★★★★ (2.00)	★★★★ (2.83)	★★★★ (2.83)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.50)	★★★★ (2.67)	★★★★ (2.33)	★★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Packaging	IFU
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)	★★★★ (3.00)	★★★★ (3.00)	★★★★ (3.00)
Easy to know how to use (intuitive)	★★★★ (2.14)	★★★★ (2.14)	★★★★ (1.86)	★★★★ (2.29)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.00)	★★★★ (2.00)	★★★★ (2.00)	★★★★ (2.00)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★★★★ (2.00)	★★★★ (2.07)	★★★★ (2.00)	★★★★ (2.00)
Ease of positioning over puncture site	★★★★ (1.71)	★★★★ (1.86)	★★★★ (2.00)	★★★★ (2.00)
Indication of activation (Audible click)	★★★★ (2.14)	★★★★ (2.36)	★★★★ (2.14)	★★★★ (2.43)
Force required for activation	★★★★ (2.14)	★★★★ (2.14)	★★★★ (2.00)	★★★★ (2.14)
The product activates everytime %	94.3%	96.5%	100%	100%
The lancing end of the lancet is clear and distinctive	★★★★ (2.00)	★★★★ (2.36)	★★★★ (2.00)	★★★★ (1.86)
Feel in the hand, secure in the grip	★★★★ (2.00)	★★★★ (2.29)	★★★★ (1.43)	★★★★ (1.86)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.14)	★★★★ (1.57)	★★★★ (2.14)	★★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (0.71)	★★★ (1.00)	★★★ (1.00)	★★★ (1.43)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★★ (2.29)	★★★★ (2.07)	★★★★ (3.00)	★★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★★ (1.57)	★★★★ (2.29)	★★★ (0.43)	★★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗	✓	✗	✗

SINGLE USE SAFETY BLOOD LANCETS

– Type: Needle (Page 4)



	PROSPECT DIAGNOSTICS		RADIOMETER LTD	ROCHE
				
BRAND	Acti-lance	Haemolance+	Prolance	Accu-Chek Safe T Pro Uno
MANUFACTURER	HTLSTREFA-SA	HTLSTREFA-SA	HTLSTREFA-SA	Roche
TYPE OF LANCET	Needle	Needle	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	200	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button	Top Button	Top Button	Top Button
PENETRATION METHOD	Puncture	Puncture	Puncture	Puncture
FEATURE	Pain Reducing Feature			
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	23G x 1.8mm = 106µl	18G x 1.8mm = (20-50µl) 21G x 1.8mm = (10-20µl) 25G x 1.4mm = (4 -10µl) 28G x 1.6mm = (<4µl)	18G x 1.8mm 21G x 1.8mm 25G x 1.4mm	28G x 1.5mm
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★★ (2.67)	★★★★ (2.67)	★★★ (2.00)
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.67)	★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★★ (3.00)	★★★★ (2.83)	★★★ (2.00)	★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★★★ (2.00)	★★★ (2.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.67)	★★★ (2.67)	★★★★ (2.67)	★★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Both	Packaging	Both
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.83)	★★★★ (2.67)	★★★★ (3.00)	★★★ (2.50)
Easy to know how to use (intuitive)	★★★ (2.29)	★★★ (2.17)	★★★ (2.14)	★★★ (2.17)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)	★★★★ (2.57)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★★★ (2.00)	★★★ (2.14)	★★★ (2.14)	★★★ (2.00)
Ease of positioning over puncture site	★★★ (2.00)	★★★ (1.86)	★★★ (1.86)	★★★★ (2.33)
Indication of activation (Audible click)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.43)	★★★★ (2.33)
Force required for activation	★★★ (2.00)	★★★ (2.00)	★★★ (2.14)	★★★ (1.83)
The product activates everytime %	97.1%	99.3%	98.6%	100%
The lancing end of the lancet is clear and distinctive	★★★★ (2.29)	★★★★ (2.43)	★★★★ (2.43)	★★★★ (2.33)
Feel in the hand, secure in the grip	★★★ (1.86)	★★★ (2.08)	★★★★ (2.29)	★★★★ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.00)	★★★ (1.57)	★★★ (1.43)	★★★★ (2.17)
Can a used lancet be differentiated against an unused one	★★★ (1.86)	★★★ (0.71)	★★★ (1.00)	★★★ (2.00)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.14)	★★★ (2.14)	★★★ (2.00)	★★★ (2.17)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)	★★★ (2.14)	★★★★ (2.29)	★★★ (1.83)
Does the Packaging indicate ability for standard recycling	✓	✓	✓	✓

	SARSTEDT LTD	SMITHS MEDICAL INTERNATIONAL	VITAL CARE	
SINGLE USE SAFETY BLOOD LANCETS – Type: Needle (Page 5)				
				
BRAND	Sarstedt	Safe T Lance Plus	Vitrex Sterilance Flex	Vital Care Lite
MANUFACTURER	Sarstedt Ltd	HTLSTREFA-SA	Vitrex Medical	Vitrex Medical
TYPE OF LANCET	Needle	Needle	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	100	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button	Top Button	Pressure	Side Trigger
PENETRATION METHOD	Puncture	Puncture	Puncture	Puncture
FEATURE		Rounded shape with ribs for a firm and non-slip grip	Multi Depth 3 settings	Pain Reducing Feature
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	18G x 1.8mm = 10µl 21G x 1.8mm = (10 - 50µl) 28G x 1.6mm = (20 - 100µl)	18G x 1.8mm = 55µl 21G x 1.8mm = 92µl 25G x 1.4mm = 100µl 28G x 1.6mm = 109µl	26G x Multi Depth (1.2, 1.8, 2.4mm) = ?? 28G x Multi Depth (1.2, 1.8, 2.4mm) = (5 - 20µl)	21G x 1.8mm 21G x 2.4mm 21G x 2.8mm 26G x 1.8mm
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (1.83)	★★★ (2.00)	★★★ (1.83)	★★★★ (2.67)
Is it easy to identify the product penetration depth	★★★ (1.33)	★★★ (2.17)	★★★ (2.00)	★★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★ (1.33)	★★★ (2.17)	★★★ (2.00)	★★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (1.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (1.17)	★★★★ (2.50)	★★★★ (2.67)	★★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Packaging	IFU
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)	★★★★ (2.50)	★★★★ (2.67)	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.17)	★★★ (2.14)	★★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★★ (2.86)	★★★ (1.00)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★★★ (1.76)	★★★ (2.14)	★★★ (2.00)	★★★★ (2.29)
Ease of positioning over puncture site	★★★ (1.93)	★★★ (1.86)	★★★ (1.71)	★★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.29)
Force required for activation	★★★ (2.14)	★★★ (2.00)	★★★ (2.14)	★★★★ (2.14)
The product activates everytime %	100%	99.3%	100%	94.3%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★★ (2.43)	★★★ (2.14)	★★★★ (1.71)
Feel in the hand, secure in the grip	★★★ (2.14)	★★★ (2.08)	★★★ (2.14)	★★★★ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.29)	★★★ (1.57)	★★★ (2.14)	★★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (1.78)	★★★ (0.71)	★★★ (0.86)	★★★★ (1.29)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.00)	★★★ (2.14)	★★★ (2.14)	★★★★ (2.00)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★★ (2.36)	★★★ (2.00)	★★★ (2.00)	★★★ (1.43)
Does the Packaging indicate ability for standard recycling	X	X	X	X

SINGLE USE SAFETY BLOOD LANCETS

– Type: Needle (Page 6)



SPIRIT HEALTHCARE LTD



BRAND	Medlance Plus	Vitrex Sterilance Flex	Vitrex Sterilance Lite II	Vitrex Sterilance Press II
MANUFACTURER	HTLSTREFA-SA	Vitrex Medical	Vitrex Medical	Vitrex Medical
TYPE OF LANCET	Needle	Needle	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	100	100	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Pressure	Side Trigger	Pressure
PENETRATION METHOD	Puncture	Puncture	Puncture	Puncture
FEATURE		Multi Depth 3 settings		
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	21G x 1.8mm 21G x 2.4mm 25G x 1.5mm	28G x Multi Depth (1.2, 1.8, 2.4mm) = (5 - 20µl)	21G x 1.8mm = (5-50µl) 21G x 2.4mm = (5-5µl) 26G x 1.8mm = (5 - 30µl) 26G x 2.4mm = (5 -30µl) 28G x 1.8mm = (5-20µl) 30G x 1.8mm = ??	18G x 1.8mm = (40- 150µl) 21G x 1.8mm = (5 - 50µl) 21G x 2.2mm = (5 - 50µl) 21G x 2.8mm = (5 - 50µl)
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★ (1.83)	★★★ (2.17)	★★★ (2.17)
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★ (2.00)	★★★ (2.33)	★★★ (2.33)
Is it easy to identify product gauge or length of incision	★★★★ (2.83)	★★★ (2.00)	★★★ (2.33)	★★★ (2.33)
Is there any indication on the Packaging of expected blood volume	★★★ (2.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.67)	★★★ (2.67)	★★★ (2.67)	★★★ (2.67)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Packaging	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (2.50)	★★★ (2.67)	★★★ (2.67)	★★★ (2.67)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)	★★★ (2.07)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★★ (2.86)	★★★★ (2.86)	★★★★ (2.86)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★★★ (1.93)	★★★ (2.00)	★★★ (1.76)	★★★ (1.86)
Ease of positioning over puncture site	★★★ (1.81)	★★★ (1.71)	★★★ (2.00)	★★★ (1.57)
Indication of activation (Audible click)	★★★ (2.43)	★★★ (2.29)	★★★ (2.15)	★★★ (2.00)
Force required for activation	★★★ (2.29)	★★★ (2.14)	★★★ (2.07)	★★★ (2.14)
The product activates everytime %	97.9%	100%	94.3%	97.1%
The lancing end of the lancet is clear and distinctive	★★★ (2.00)	★★★ (2.14)	★★★ (1.57)	★★★ (1.71)
Feel in the hand, secure in the grip	★★★ (1.89)	★★★ (2.14)	★★★ (1.86)	★★★ (2.14)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (2.14)	★★★ (2.29)	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (1.71)	★★★ (0.86)	★★★ (1.71)	★★★ (0.86)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.29)	★★★ (2.14)	★★★ (1.43)	★★★ (1.86)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.18)	★★★ (2.00)	★★★ (1.57)	★★★ (2.00)
Does the Packaging indicate ability for standard recycling	✓	✗	✗	✗

SINGLE USE SAFETY BLOOD LANCETS

– Type: Blade (Page 1)



	BD		CENTRAL MEDICAL SUPPLIES	BEACON HEALTHCARE
BRAND	BD Microtainer® Contact-Activated Lancet	BD Microtainer® QuikHeel™	Gentleheel	General Lancet
MANUFACTURER	BD	BD	GRI Medical Technology	N/A
TYPE OF LANCET	Blade	Blade	Blade	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	50	50	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Top Button	Side Trigger	N/A
PENETRATION METHOD	Puncture	Incision	Incision	
FEATURE				
RANGE (GUAGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	1.5mm x 2mm	1.75mm x 0.85mm 2.5mm x 1mm	1.4mm x 0.65mm 1.75mm x 0.85mm 2.5mm x 1mm 3mm x 2mm	N/A
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★☆☆ (1.50)	★★★ (2.00)	★★★ (2.00)	Product not available for evaluation
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.50)	
Is it easy to identify product guage or length of incision	★★★ (2.17)	★★★★ (2.67)	★★★★ (2.67)	
Is there any indication on the Packaging of expected blood volume	☆☆☆ (0.00)	☆☆☆ (0.00)	☆☆☆ (0.00)	
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.17)	★★★ (2.17)	★★★★ (2.33)	
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	None Found	
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.83)	★★★★ (2.50)	★★★★ (2.50)	
Easy to know how to use (intuitive)	★★★ (2.21)	★★★ (2.00)	☆☆☆ (1.14)	
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.86)	★★★★ (2.86)	★★★ (1.71)	
Number of steps required to prepare the device for use	1	1	2	
The product can be prepared without any premature activation	★★★ (2.36)	★★★ (2.14)	★★★ (1.86)	
Ease of positioning over puncture site	★★★ (2.07)	★★★ (1.86)	★★★ (1.71)	
Indication of activation (Audible click)	★★★ (2.36)	★★★★ (2.43)	★★★★ (2.57)	
Force required for activation	★★★★ (2.29)	★★★ (2.14)	★★★ (2.14)	
The product activates everytime %	95.7%	100%	94.3%	
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★ (1.57)	★★★ (1.71)	
Feel in the hand, secure in the grip	★★★★ (2.57)	★★★ (2.00)	★★★ (2.00)	
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.43)	★★★★ (2.43)	★★★ (2.14)	
Can a used lancet be differentiated against an unused one	★★★ (1.64)	★★★ (2.14)	★★★ (1.57)	
Following activation the needle is fully retracted	✓	✓	✓	
The device cannot be rearmed	★★★ (2.43)	★★★ (2.29)	★★★★ (2.29)	
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.29)	★★★ (2.29)	★★★★ (2.29)	
Does the Packaging indicate ability for standard recycling	✓	✗	✗	

SINGLE USE SAFETY BLOOD LANCETS

– Type: Blade (Page 2)



GREINER BIO-ONE



MEDLINE INDUSTRIES



OWEN MUMFORD



PROSPECT DIAGNOSTICS



BRAND	Minicollect	Prolance	Unistik Tiny Touch	Haemolance+
MANUFACTURER	HTLSTREFA-SA	HTLSTREFA-SA	Owen Mumford	HTLSTREFA-SA
TYPE OF LANCET	Blade	Blade	Blade	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	50	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Top Button	Side Trigger	Top Button
PENETRATION METHOD	Puncture	Puncture	Incision	Puncture
FEATURE			Pain reducing feature Lot # etched on Product	
RANGE (GAUGE OR LENGTH X DEPTH)	0.8mm x 2mm	1.5mm x 1.2mm 1.5mm x 1.6mm	1.75mm x 0.85mm Preemie 2.5mm x 1mm Full Term (Sufficient blood volume to test Neonatal screening (PKU), Billirubin, Glucose, Full/Complete Blood Count	1.5mm x 1.2mm = (100µl to 200µl) 1.5mm x 1.6mm = (100µl to 200µl)
AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER				
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.17)	★★★★ (2.67)	★★★★ (2.33)	★★★★ (2.67)
Is it easy to identify the product penetration depth	★★★★ (2.50)	★★★★ (2.67)	★★★★ (2.83)	★★★★ (2.83)
Is it easy to identify product gauge or length of incision	★★★ (2.17)	★★★ (2.00)	★★★★ (2.83)	★★★★ (2.83)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	★★★ (2.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.00)	★★★★ (2.67)	★★★★ (2.33)	★★★★ (2.67)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Packaging	Both
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (3.00)	★★★★ (3.00)	★★★★ (3.00)	★★★★ (2.67)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)	★★★ (1.57)	★★★ (2.17)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★★★ (1.93)	★★★ (2.07)	★★★ (2.00)	★★★ (2.14)
Ease of positioning over puncture site	★★★ (1.81)	★★★ (1.86)	★★★ (1.71)	★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.43)	★★★★ (2.36)	★★★★ (2.57)	★★★★ (2.29)
Force required for activation	★★★★ (2.29)	★★★ (2.14)	★★★ (2.00)	★★★ (2.00)
The product activates everytime %	97.9%	96.5%	100%	99.3%
The lancing end of the lancet is clear and distinctive	★★★ (2.00)	★★★★ (2.36)	★★★ (1.43)	★★★★ (2.43)
Feel in the hand, secure in the grip	★★★ (1.89)	★★★★ (2.29)	★★★ (1.86)	★★★ (2.08)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (1.57)	★★★★ (2.43)	★★★ (1.57)
Can a used lancet be differentiated against an unused one	★★★ (1.71)	★★★ (1.00)	★★★ (2.14)	★★★ (0.71)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.29)	★★★ (2.07)	★★★★ (2.43)	★★★ (2.14)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)	★★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗	✓	✗	✓

SINGLE USE SAFETY BLOOD LANCETS

– Type: Blade (Page 3)



SARSTEDT LTD

SMITHS MEDICAL INTERNATIONAL



BRAND	Sarstedt	Sarstedt Safety Heel	Neoheel	Safe T Lance Plus
MANUFACTURER	Sarstedt Ltd	Sarstedt Ltd	Sterilance Medical	HTLSTREFA-SA
TYPE OF LANCET	Blade	Blade	Blade	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	50	50	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button	Side Trigger	Side Trigger	Top Button
PENETRATION METHOD	Puncture	Incision	Incision	Puncture
FEATURE			Integral Safety Tab prevents premature activation and avoids loose parts	Rounded shape with ribs for a firm and non-slip grip
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	1.5mm x 1.2mm = (100 - 500µl) 1.5mm x 1.6mm = (20 - 250µl)	1.75mm x 0.85mm = >80µl 2.5mm x 1mm = >120µl	1.4mm x 0.65mm = 300µl 1.75mm x 0.85mm = 300µl 2.5mm x 1mm = 300µl 3mm x 2mm = 300µl	1.5mm x 1.2mm = 233µl 1.5mm x 1.6mm = 314µl
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (1.83)	★★★★ (2.50)	★★★★ (2.83)	★★★ (2.00)
Is it easy to identify the product penetration depth	★★★ (1.33)	★★★★ (2.83)	★★★★ (2.67)	★★★ (2.17)
Is it easy to identify product gauge or length of incision	★★★ (1.33)	★★★★ (2.83)	★★★★ (2.67)	★★★ (2.17)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)	★★★ (0.33)	★★★ (1.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (1.17)	★★★★ (2.83)	★★★★ (2.50)	★★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Both	Both	Both
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)	★★★★ (2.33)	★★★ (1.83)	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★★ (2.43)	★★★ (2.00)	★★★ (1.71)	★★★ (2.17)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	1	2	2	1
The product can be prepared without any premature activation	★★★ (1.76)	★★★ (1.71)	★★★ (2.14)	★★★ (2.14)
Ease of positioning over puncture site	★★★ (1.93)	★★★ (1.29)	★★★ (1.71)	★★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.29)
Force required for activation	★★★ (2.14)	★★★ (2.14)	★★★ (1.86)	★★★ (2.00)
The product activates everytime %	100%	100%	97.1%	99.3%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★ (2.00)	★★★ (2.14)	★★★★ (2.43)
Feel in the hand, secure in the grip	★★★ (2.14)	★★★ (2.00)	★★★ (2.00)	★★★ (2.08)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.29)	★★★ (2.14)	★★★★ (2.29)	★★★ (1.57)
Can a used lancet be differentiated against an unused one	★★★ (1.78)	★★★ (1.00)	★★★ (2.00)	★★★ (0.71)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.00)	★★★ (2.14)	★★★★ (2.29)	★★★ (2.14)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★★ (2.36)	★★★ (2.14)	★★★ (2.00)	★★★ (2.00)
Does the Packaging indicate ability for standard recycling	✗	✗	✗	✗

SINGLE USE SAFETY BLOOD LANCETS

– Type: Blade (Page 4)



SPIRIT HEALTHCARE LTD

WERFEN



BRAND	Medlance Plus	Steriheel	Vitrex Sterilance Lite II	Tenderfoot	Tenderlett
MANUFACTURER	HTLSTREFA-SA	Sterilance Medical	Vitrex Medical	Accuriva Diagnostics	ITC USA
TYPE OF LANCET	Blade	Blade	Blade	Blade	Blade (Finger)
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	50	100	50	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Side Trigger	Side Trigger	Side Trigger	Top Button
PENETRATION METHOD	Puncture	Incision	Puncture	Incision	Incision
FEATURE					
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	0.8mm x 2.0mm	1.75mm x 0.85mm = < 80µl 2.5mm x 1mm = < 120µl 2.8mm x 1.4mm = < 150 µl	18G Blade X 1.8mm = (40 - 150µl)	1.4mm x 0.65mm 1.75mm x 0.85mm 2.5mm x 1mm 3mm x 2mm	0.94mm X 1.75mm
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★★ (2.83)	★★★ (2.17)	★★★ (1.83)	★★★ (1.17)
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.33)	★★★ (0.00)	★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.33)	★★★ (0.00)	★★★ (0.00)
Is there any indication on the Packaging of expected blood volume	★★★ (2.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.67)	★★★★ (2.83)	★★★★ (2.67)	★★★ (0.00)	★★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Both	Packaging	IFU	IFU
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (2.50)	★★★ (2.17)	★★★ (2.67)	★★★★ (3.00)	★★★ (1.83)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)	★★★ (2.07)	★★★ (2.00)	★★★★ (2.67)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★★ (2.86)	★★★ (1.00)	★★★★ (2.50)
Number of steps required to prepare the device for use	1	2	1	2	1
The product can be prepared without any premature activation	★★★ (1.93)	★★★ (2.00)	★★★ (1.76)	★★★ (2.00)	★★★ (2.00)
Ease of positioning over puncture site	★★★ (1.81)	★★★ (1.57)	★★★ (2.00)	★★★ (1.86)	★★★ (2.23)
Indication of activation (Audible click)	★★★★ (2.43)	★★★★ (2.29)	★★★ (2.15)	★★★★ (2.29)	★★★ (2.17)
Force required for activation	★★★ (2.29)	★★★ (2.14)	★★★ (2.07)	★★★ (2.14)	★★★ (1.83)
The product activates everytime %	97.9%	91.4%	94.3%	100%	100%
The lancing end of the lancet is clear and distinctive	★★★ (2.00)	★★★ (2.14)	★★★ (1.57)	★★★ (2.00)	★★★ (1.67)
Feel in the hand, secure in the grip	★★★ (1.89)	★★★ (2.14)	★★★ (1.86)	★★★ (2.14)	★★★ (1.83)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (2.14)	★★★★ (2.29)	★★★ (2.14)	★★★ (2.17)
Can a used lancet be differentiated against an unused one	★★★ (1.71)	★★★ (1.29)	★★★ (1.71)	★★★ (1.83)	★★★ (0.00)
Following activation the needle is fully retracted	✓	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.29)	★★★ (2.14)	★★★ (1.43)	★★★ (2.00)	★★★ (2.17)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.18)	★★★ (2.00)	★★★ (1.57)	★★★ (2.00)	★★★ (1.50)
Does the Packaging indicate ability for standard recycling	✓	✗	✗	✗	✗


SINGLE USE SAFETY BLOOD LANCETS



BD



BRAND	BD Microtainer® Contact-Activated Lancet	BD Microtainer® Contact-Activated Lancet	BD Microtainer® QuikHeel™	BD Sentry™ Safety Lancet
MANUFACTURER	BD	BD	BD	BD
TYPE OF LANCET (NEEDLE OR BLADE)	Needle	Blade	Blade	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	50	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Pressure	Top Button	Top Button
PENETRATION METHOD	Puncture	Puncture	Incision	Puncture
FEATURE				
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	21G x 1.8mm (200 to 520µl) 30G x 1.5mm	1.5mm x 2mm	1.75mm x 0.85mm 2.5mm x 1mm	23G x 1.8mm 25G x 1.5mm
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★ ★ ★ (1.50)	★ ★ ★ (1.50)	★ ★ ★ (2.00)	★ ★ ★ (2.00)
Is it easy to identify the product penetration depth	★ ★ ★ (2.83)	★ ★ ★ (2.83)	★ ★ ★ (2.83)	★ ★ ★ (2.67)
Is it easy to identify product gauge or length of incision	★ ★ ★ (2.17)	★ ★ ★ (2.17)	★ ★ ★ (2.67)	★ ★ ★ (2.33)
Is there any indication on the Packaging of expected blood volume	★ ★ ★ (0.00)	★ ★ ★ (0.00)	★ ★ ★ (0.00)	★ ★ ★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★ ★ ★ (2.17)	★ ★ ★ (2.17)	★ ★ ★ (2.17)	★ ★ ★ (2.17)
Is the IFU displayed on the Packaging or as an IFU leaflet	Both	Packaging	Packaging	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★ ★ ★ (2.83)	★ ★ ★ (2.83)	★ ★ ★ (2.50)	★ ★ ★ (2.50)
Easy to know how to use (intuitive)	★ ★ ★ (2.21)	★ ★ ★ (2.21)	★ ★ ★ (2.00)	★ ★ ★ (2.29)
Can the Packaging be used as a dispenser (not too small or flimsy)	★ ★ ★ (2.86)	★ ★ ★ (2.86)	★ ★ ★ (2.86)	★ ★ ★ (1.57)
Number of steps required to prepare the device for use	1	1	1	1
The product can be prepared without any premature activation	★ ★ ★ (2.36)	★ ★ ★ (2.36)	★ ★ ★ (2.14)	★ ★ ★ (1.86)
Ease of positioning over puncture site	★ ★ ★ (2.07)	★ ★ ★ (2.07)	★ ★ ★ (1.86)	★ ★ ★ (1.86)
Indication of activation (Audible click)	★ ★ ★ (2.36)	★ ★ ★ (2.36)	★ ★ ★ (2.43)	★ ★ ★ (2.57)
Force required for activation	★ ★ ★ (2.29)	★ ★ ★ (2.29)	★ ★ ★ (2.14)	★ ★ ★ (2.00)
The product activates everytime %	95.7%	95.7%	100%	100%
The lancing end of the lancet is clear and distinctive	★ ★ ★ (2.14)	★ ★ ★ (2.14)	★ ★ ★ (1.57)	★ ★ ★ (2.57)
Feel in the hand, secure in the grip	★ ★ ★ (2.57)	★ ★ ★ (2.57)	★ ★ ★ (2.00)	★ ★ ★ (1.86)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★ ★ ★ (2.43)	★ ★ ★ (2.43)	★ ★ ★ (2.43)	★ ★ ★ (2.43)
Can a used lancet be differentiated against an unused one	★ ★ ★ (1.64)	★ ★ ★ (1.64)	★ ★ ★ (2.14)	★ ★ ★ (1.86)
Following activation the needle is fully retracted	✓	✓	✓	✓
The device cannot be rearmed	★ ★ ★ (2.43)	★ ★ ★ (2.43)	★ ★ ★ (2.29)	★ ★ ★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★ ★ ★ (2.29)	★ ★ ★ (2.29)	★ ★ ★ (2.29)	★ ★ ★ (2.29)
Does the Packaging indicate ability for standard recycling	✓	✓	X	X

	BEACON HEALTHCARE	
SINGLE USE SAFETY BLOOD LANCETS 		
BRAND	General Lancet	Medex
MANUFACTURER	N/A	N/A
TYPE OF LANCET (NEEDLE OR BLADE)	Blade	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	N/A	N/A
PENETRATION METHOD		Puncture
FEATURE		
RANGE (GUAGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	N/A	??G X 1.8mm
CLINICAL CRITERIA	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	Product not available for evaluation	Product not available for evaluation
Is it easy to identify the product penetration depth		
Is it easy to identify product guage or length of incision		
Is there any indication on the Packaging of expected blood volume		
Does the packaging clearly show the details for the product inside and not the range or a generic image		
Is the IFU displayed on the Packaging or as an IFU leaflet		
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible		
Easy to know how to use (intuitive)		
Can the Packaging be used as a dispenser (not too small or flimsy)		
Number of steps required to prepare the device for use		
The product can be prepared without any premature activation		
Ease of positioning over puncture site		
Indication of activation (Audible click)		
Force required for activation		
The product activates everytime %		
The lancing end of the lancet is clear and distinctive		
Feel in the hand, secure in the grip		
After the initial activation the lancet does NOT continue to click or give an impression of firing		
Can a used lancet be differentiated against an unused one		
Following activation the needle is fully retracted		
The device cannot be rearmed		
Is the product suitably robust so that it is unable to be broken open by hand without tools?		
Does the Packaging indicate ability for standard recycling		

SINGLE USE SAFETY BLOOD LANCETS



CAMBRIDGE SENSORS



BRAND	Microdot
MANUFACTURER	Intrinsyk Medical Devices
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure
PENETRATION METHOD	Puncture
FEATURE	
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME (RANGE IF UNKNOWN) AS PROVIDED BY THE SUPPLIER	23G x 2.2mm = (8-25µl) 26G x 1.8mm = (6-15µl) 28G x 1.8mm = (2-10µl) 30G x 1.8mm = (0.1-3µl)
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.00)
Is it easy to identify the product penetration depth	★★★★ (2.67)
Is it easy to identify product gauge or length of incision	★★★★ (2.67)
Is there any indication on the Packaging of expected blood volume	★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (2.17)
Easy to know how to use (intuitive)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★ (2.00)
Ease of positioning over puncture site	★★★ (2.00)
Indication of activation (Audible click)	★★★★ (2.57)
Force required for activation	★★★★ (2.29)
The product activates everytime %	97.1%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)
Feel in the hand, secure in the grip	★★★ (2.14)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (0.86)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗

SINGLE USE SAFETY BLOOD LANCETS



CENTRAL MEDICAL SUPPLIES



BRAND	Gentleheel
MANUFACTURER	GRI Medical Technology
TYPE OF LANCET (NEEDLE OR BLADE)	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	50
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Side Trigger
PENETRATION METHOD	Incision
FEATURE	
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	1.4mm x 0.65mm 1.75mm x 0.85mm 2.5mm x 1mm 3mm x 2mm
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★☆☆ (2.00)
Is it easy to identify the product penetration depth	★★★☆☆ (2.50)
Is it easy to identify product gauge or length of incision	★★★☆☆ (2.67)
Is there any indication on the Packaging of expected blood volume	☆☆☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★☆ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	None Found
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★☆☆ (2.50)
Easy to know how to use (intuitive)	★★☆☆☆ (1.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★☆☆ (1.71)
Number of steps required to prepare the device for use	2
The product can be prepared without any premature activation	★★★☆☆ (1.86)
Ease of positioning over puncture site	★★★☆☆ (1.71)
Indication of activation (Audible click)	★★★☆☆ (2.57)
Force required for activation	★★★☆☆ (2.14)
The product activates everytime %	94.3%
The lancing end of the lancet is clear and distinctive	★★★☆☆ (1.71)
Feel in the hand, secure in the grip	★★★☆☆ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★☆☆ (2.14)
Can a used lancet be differentiated against an unused one	★★★☆☆ (1.57)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★☆☆ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★☆☆ (2.29)
Does the Packaging indicate ability for standard recycling	✗

SINGLE USE SAFETY BLOOD LANCETS



GLUCORX



BRAND	GlucoRX
MANUFACTURER	Shanghai Carelife International
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure
PENETRATION METHOD	Puncture
FEATURE	
RANGE (GUAGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	23G x 2.2mm = (75-125µL) 26G x 1.8mm = (30-75µL) 28G x 1.8mm = (5 - 30µL) 30G x 1.6mm = (4 - 20µL)
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.33)
Is it easy to identify the product penetration depth	★★★ (2.50)
Is it easy to identify product guage or length of incision	★★★ (2.67)
Is there any indication on the Packaging of expected blood volume	★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (2.00)
Easy to know how to use (intuitive)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★ (1.71)
Ease of positioning over puncture site	★★★ (1.86)
Indication of activation (Audible click)	★★★ (2.43)
Force required for activation	★★★ (2.29)
The product activates everytime %	97.1%
The lancing end of the lancet is clear and distinctive	★★★ (2.43)
Feel in the hand, secure in the grip	★★★ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.29)
Can a used lancet be differentiated against an unused one	★★★ (2.00)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗

SINGLE USE SAFETY BLOOD LANCETS



GREINER BIO-ONE



BRAND	Minicollect	Minicollect
MANUFACTURER	HTLSTREFA-SA	HTLSTREFA-SA
TYPE OF LANCET (NEEDLE OR BLADE)	Needle	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Pressure
PENETRATION METHOD	Puncture	Puncture
FEATURE		
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER.	21G x 1.8mm 21G x 2.4mm 25G x 1.5mm 30G x 1.2mm	0.8mm x 2mm
CLINICAL CRITERIA	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.17)	★★★ (2.17)
Is it easy to identify the product penetration depth	★★★★ (2.50)	★★★★ (2.50)
Is it easy to identify product gauge or length of incision	★★★ (2.17)	★★★ (2.17)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.00)	★★★ (2.00)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (3.00)	★★★★ (3.00)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	1	1
The product can be prepared without any premature activation	★★★ (1.93)	★★★ (1.93)
Ease of positioning over puncture site	★★★ (1.81)	★★★ (1.81)
Indication of activation (Audible click)	★★★★ (2.43)	★★★★ (2.43)
Force required for activation	★★★ (2.29)	★★★★ (2.29)
The product activates everytime %	97.9%	97.9%
The lancing end of the lancet is clear and distinctive	★★★ (2.00)	★★★ (2.00)
Feel in the hand, secure in the grip	★★★ (1.89)	★★★ (1.89)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (1.71)	★★★ (1.71)
Following activation the needle is fully retracted	✓	✓
The device cannot be rearmed	★★★ (2.29)	★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗	✗

SINGLE USE SAFETY BLOOD LANCETS



HENRY SCHEIN



BRAND	Accu-ChekSafe T Pro Plus
MANUFACTURER	Roche
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button
PENETRATION METHOD	Puncture
FEATURE	Multi Depth 3 settings
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	23G x Multi Depth (1.3, 1.8, 2.3mm)
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.00)
Is it easy to identify the product penetration depth	★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★ (1.86)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.57)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★★ (2.29)
Ease of positioning over puncture site	★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.14)
Force required for activation	★★★ (2.00)
The product activates everytime %	100%
The lancing end of the lancet is clear and distinctive	★★★★ (2.57)
Feel in the hand, secure in the grip	★★★★ (2.29)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (1.86)
Can a used lancet be differentiated against an unused one	★★★ (1.14)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★ (2.14)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✓

SINGLE USE SAFETY BLOOD LANCETS



HOME HEALTH



BRAND	Home Health
MANUFACTURER	Shandong Lianfa Ltd
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	300
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure
PENETRATION METHOD	Puncture
FEATURE	
RANGE (GAUGE OR LENGTH X DEPTH)	21G x 2.2mm = (20 - 50µl)
AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.67)
Is it easy to identify the product penetration depth	★★★ (2.67)
Is it easy to identify product gauge or length of incision	★★★ (2.67)
Is there any indication on the Packaging of expected blood volume	★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (3.00)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (2.67)
Easy to know how to use (intuitive)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★☆☆ (0.00)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★ (2.00)
Ease of positioning over puncture site	★★★ (2.00)
Indication of activation (Audible click)	★★★ (2.57)
Force required for activation	★★★ (2.29)
The product activates everytime %	97.1%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)
Feel in the hand, secure in the grip	★★★ (2.14)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★☆☆ (0.86)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗

SINGLE USE SAFETY BLOOD LANCETS



MATZ MEDICAL



BRAND	Matz Medical
MANUFACTURER	N/A
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure
PENETRATION METHOD	Puncture
FEATURE	
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	21G x 2.4mm 28G x 1.8mm
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)
Is it easy to identify the product penetration depth	★★★★ (2.33)
Is it easy to identify product gauge or length of incision	★★★★ (2.50)
Is there any indication on the Packaging of expected blood volume	★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★☆☆ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★☆☆ (2.00)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★☆☆ (2.00)
Ease of positioning over puncture site	★★★☆☆ (1.71)
Indication of activation (Audible click)	★★★☆☆ (2.14)
Force required for activation	★★★☆☆ (2.14)
The product activates everytime %	94.3%
The lancing end of the lancet is clear and distinctive	★★★☆☆ (2.00)
Feel in the hand, secure in the grip	★★★☆☆ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★☆☆ (2.14)
Can a used lancet be differentiated against an unused one	★☆☆ (0.71)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★☆☆ (1.57)
Does the Packaging indicate ability for standard recycling	✗

SINGLE USE SAFETY BLOOD LANCETS



MEDLINE INDUSTRIES



BRAND	Prolance	Prolance
MANUFACTURER	HTLSTREFA-SA	HTLSTREFA-SA
TYPE OF LANCET (NEEDLE OR BLADE)	Needle	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button	Top Button
PENETRATION METHOD	Puncture	Puncture
FEATURE		
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	18G X 1.8mm 21G x 1.8mm 25G x 1.4mm 28G x 1.6mm	1.5mm x 1.2mm 1.5mm x 1.6mm
CLINICAL CRITERIA	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.67)	★★★★ (2.67)
Is it easy to identify the product penetration depth	★★★★ (2.67)	★★★★ (2.67)
Is it easy to identify product gauge or length of incision	★★★ (2.00)	★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.67)	★★★★ (2.67)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (3.00)	★★★★ (3.00)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	1	1
The product can be prepared without any premature activation	★★★ (2.07)	★★★ (2.07)
Ease of positioning over puncture site	★★★ (1.86)	★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.36)	★★★★ (2.36)
Force required for activation	★★★ (2.14)	★★★ (2.14)
The product activates everytime %	96.5%	96.5%
The lancing end of the lancet is clear and distinctive	★★★★ (2.36)	★★★★ (2.36)
Feel in the hand, secure in the grip	★★★★ (2.29)	★★★★ (2.29)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (1.57)	★★★ (1.57)
Can a used lancet be differentiated against an unused one	★★★ (1.00)	★★★ (1.00)
Following activation the needle is fully retracted	✓	✓
The device cannot be rearmed	★★★ (2.07)	★★★ (2.07)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.29)	★★★ (2.29)
Does the Packaging indicate ability for standard recycling	✓	✓

SINGLE USE SAFETY BLOOD LANCETS



OWEN MUMFORD



BRAND	Unistik 3	Unistik Tiny Touch	Unistik Touch
MANUFACTURER	Owen Mumford	Owen Mumford	Owen Mumford
TYPE OF LANCET (NEEDLE OR BLADE)	Needle	Blade	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100	50	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Side Trigger	Side Trigger	Pressure
PENETRATION METHOD	Puncture	Incision	Puncture
FEATURE	Pain reducing feature Lot # etched on Product	Pain reducing feature Lot # etched on Product	Pain reducing feature Lot # etched on Product
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	18G x 1.8mm (240µl Maximum) 21G x 2mm (172µl Maximum) 23G x 1.8mm (130µl Maximum) 28G x 1.8mm (158µl Maximum) 30G x 1.5mm (82µl Maximum)	1.75mm x 0.85mm Preemie 2.5mm x 1mm Full Term (Sufficient blood volume to test Neonatal screening (PKU), Billirubin, Glucose, Full/Complete Blood Count)	21G x 2mm (173µl Maximum) 23G x 2mm (165.1µl Maximum) 28G x 1.8mm (110.1µl Maximum) 30G x 1.5mm (58.2µl Maximum)
CLINICAL CRITERIA	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.33)	★★★★ (2.33)	★★★★ (2.33)
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.83)
Is it easy to identify product gauge or length of incision	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.83)
Is there any indication on the Packaging of expected blood volume	★★★☆☆ (0.00)	★★★☆☆ (0.00)	★★★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.33)	★★★★ (2.33)	★★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	IFU
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (3.00)	★★★★ (3.00)	★★★★ (3.00)
Easy to know how to use (intuitive)	★★★★ (1.86)	★★★★ (1.57)	★★★★ (2.29)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.00)	★★★★ (2.00)	★★★★ (2.00)
Number of steps required to prepare the device for use	1	1	1
The product can be prepared without any premature activation	★★★★ (2.00)	★★★★ (2.00)	★★★★ (2.00)
Ease of positioning over puncture site	★★★★ (2.00)	★★★★ (1.71)	★★★★ (2.00)
Indication of activation (Audible click)	★★★★ (2.14)	★★★★ (2.57)	★★★★ (2.43)
Force required for activation	★★★★ (2.00)	★★★★ (2.00)	★★★★ (2.14)
The product activates everytime %	100%	100%	100%
The lancing end of the lancet is clear and distinctive	★★★★ (2.00)	★★★★ (1.43)	★★★★ (1.86)
Feel in the hand, secure in the grip	★★★★ (1.43)	★★★★ (1.86)	★★★★ (1.86)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.14)	★★★★ (2.43)	★★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★★ (1.00)	★★★★ (2.14)	★★★★ (1.43)
Following activation the needle is fully retracted	✓	✓	✓
The device cannot be rearmed	★★★★ (3.00)	★★★★ (2.43)	★★★★ (2.29)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★☆☆ (0.43)	★★★★ (2.29)	★★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✗	✗	✗

SINGLE USE SAFETY BLOOD LANCETS



PROSPECT DIAGNOSTICS



	Acti-lance	Haemolance+	Haemolance+
BRAND	Acti-lance	Haemolance+	Haemolance+
MANUFACTURER	HTLSTREFA-SA	HTLSTREFA-SA	HTLSTREFA-SA
TYPE OF LANCET (NEEDLE OR BLADE)	Needle	Blade	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button	Top Button	Top Button
PENETRATION METHOD	Puncture	Puncture	Puncture
FEATURE	Pain Reducing Feature		
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	23G x 1.8mm = 106µl	1.5mm x 1.2mm = (100µl to 200µl) 1.5mm x 1.6mm = (100µl to 200µl)	18G x 1.8mm = (20-50µl) 21G x 1.8mm = (10-20µl) 25G x 1.4mm = (4 -10µl) 28G x 1.6mm = (<4µl)
CLINICAL CRITERIA	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★★ (2.67)	★★★★ (2.67)
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.83)
Is it easy to identify product gauge or length of incision	★★★★ (3.00)	★★★★ (2.83)	★★★★ (2.83)
Is there any indication on the Packaging of expected blood volume	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.67)	★★★ (2.67)	★★★ (2.67)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Both	Both
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.83)	★★★★ (2.67)	★★★★ (2.67)
Easy to know how to use (intuitive)	★★★ (2.29)	★★★ (2.17)	★★★ (2.17)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	1	1	1
The product can be prepared without any premature activation	★★★ (2.00)	★★★ (2.14)	★★★ (2.14)
Ease of positioning over puncture site	★★★ (2.00)	★★★ (1.86)	★★★ (1.86)
Indication of activation (Audible click)	★★★ (2.29)	★★★ (2.29)	★★★ (2.29)
Force required for activation	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
The product activates everytime %	97.1%	99.3%	99.3%
The lancing end of the lancet is clear and distinctive	★★★ (2.29)	★★★ (2.43)	★★★ (2.43)
Feel in the hand, secure in the grip	★★★ (1.86)	★★★ (2.08)	★★★ (2.08)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.00)	★★★ (1.57)	★★★ (1.57)
Can a used lancet be differentiated against an unused one	★★★ (1.86)	★★★ (0.71)	★★★ (0.71)
Following activation the needle is fully retracted	✓	✓	✓
The device cannot be rearmed	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	✓	✓	✓

SINGLE USE SAFETY BLOOD LANCETS



RADIOMETER LTD



BRAND	Prolance
MANUFACTURER	HTLSTREFA-SA
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button
PENETRATION METHOD	Puncture
FEATURE	
RANGE (GAUGE OR LENGTH X DEPTH)	18G x 1.8mm
AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	21G x 1.8mm
	25G x 1.4mm
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.67)
Is it easy to identify the product penetration depth	★★★★ (2.67)
Is it easy to identify product gauge or length of incision	★★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.67)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (3.00)
Easy to know how to use (intuitive)	★★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.00)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★★ (2.14)
Ease of positioning over puncture site	★★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.43)
Force required for activation	★★★★ (2.14)
The product activates everytime %	98.6%
The lancing end of the lancet is clear and distinctive	★★★★ (2.43)
Feel in the hand, secure in the grip	★★★★ (2.29)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (1.43)
Can a used lancet be differentiated against an unused one	★★★ (1.00)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★★ (2.00)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★★ (2.29)
Does the Packaging indicate ability for standard recycling	✓

SINGLE USE SAFETY BLOOD LANCETS



ROCHE



BRAND	Accu-Chek Safe T Pro Uno
MANUFACTURER	Roche
TYPE OF LANCET (NEEDLE OR BLADE)	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button
PENETRATION METHOD	Puncture
FEATURE	
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	28G x 1.5mm
CLINICAL CRITERIA	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (2.00)
Is it easy to identify the product penetration depth	★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★☆☆ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Both
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★ (2.17)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.57)
Number of steps required to prepare the device for use	1
The product can be prepared without any premature activation	★★★ (2.00)
Ease of positioning over puncture site	★★★★ (2.33)
Indication of activation (Audible click)	★★★★ (2.33)
Force required for activation	★★★ (1.83)
The product activates everytime %	100%
The lancing end of the lancet is clear and distinctive	★★★★ (2.33)
Feel in the hand, secure in the grip	★★★ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.17)
Can a used lancet be differentiated against an unused one	★★★ (2.00)
Following activation the needle is fully retracted	✓
The device cannot be rearmed	★★★ (2.17)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (1.83)
Does the Packaging indicate ability for standard recycling	✓

SINGLE USE SAFETY BLOOD LANCETS



SARSTEDT LTD



BRAND	Sarstedt	Sarstedt	Sarstedt Safety Heel
MANUFACTURER	Sarstedt Ltd	Sarstedt Ltd	Sarstedt Ltd
TYPE OF LANCET (NEEDLE OR BLADE)	Blade	Needle	Blade
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	50
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Top Button	Top Button	Side Trigger
PENETRATION METHOD	Puncture	Puncture	Incision
FEATURE			
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	1.5mm x 1.2mm = (100 - 500µl) 1.5mm x 1.6mm = (20 - 250µl)	18G x 1.8mm = 10µl 21G x 1.8mm = (10 - 50µl) 28G x 1.6mm = (20 - 100µl)	1.75mm x 0.85mm = >80µl 2.5mm x 1mm = >120µl
CLINICAL CRITERIA	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (1.83)	★★★ (1.83)	★★★★ (2.50)
Is it easy to identify the product penetration depth	★★★ (1.33)	★★★ (1.33)	★★★★ (2.83)
Is it easy to identify product gauge or length of incision	★★★ (1.33)	★★★ (1.33)	★★★★ (2.83)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (1.17)	★★★ (1.17)	★★★★ (2.83)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Both
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)	★★★★ (2.50)	★★★★ (2.33)
Easy to know how to use (intuitive)	★★★★ (2.43)	★★★ (2.14)	★★★ (2.00)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	1	1	2
The product can be prepared without any premature activation	★★★ (1.76)	★★★ (1.76)	★★★ (1.71)
Ease of positioning over puncture site	★★★ (1.93)	★★★ (1.93)	★★★ (1.29)
Indication of activation (Audible click)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.29)
Force required for activation	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)
The product activates everytime %	100%	100%	100%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★ (2.14)	★★★ (2.00)
Feel in the hand, secure in the grip	★★★ (2.14)	★★★ (2.14)	★★★ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (1.78)	★★★ (1.78)	★★★ (1.00)
Following activation the needle is fully retracted	✓	✓	✓
The device cannot be rearmed	★★★ (2.00)	★★★ (2.00)	★★★ (2.14)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★★ (2.36)	★★★★ (2.36)	★★★ (2.14)
Does the Packaging indicate ability for standard recycling	X	X	X

SINGLE USE SAFETY BLOOD LANCETS



SMITHS MEDICAL INTERNATIONAL



BRAND	Neoheel	Safe T Lance Plus	Safe T Lance Plus
MANUFACTURER	Sterilance Medical	HTLSTREFA-SA	HTLSTREFA-SA
TYPE OF LANCET (NEEDLE OR BLADE)	Blade	Blade	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	50	200	200
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Side Trigger	Top Button	Top Button
PENETRATION METHOD	Incision	Puncture	Puncture
FEATURE	Integral Safety Tab prevents premature activation and avoids loose parts	Rounded shape with ribs for a firm and non-slip grip	Rounded shape with ribs for a firm and non-slip grip
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	1.4mm x 0.65mm = 300µl 1.75mm x 0.85mm = 300µl 2.5mm x 1mm = 300µl 3mm x 2mm = 300µl	1.5mm x 1.2mm = 233µl 1.5mm x 1.6mm = 314µl	18G x 1.8mm = 55µl 21G x 1.8mm = 92µl 25G x 1.4mm = 100µl 28G x 1.6mm = 109µl
CLINICAL CRITERIA	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★ (2.00)	★★★ (2.00)
Is it easy to identify the product penetration depth	★★★★ (2.67)	★★★ (2.17)	★★★ (2.17)
Is it easy to identify product gauge or length of incision	★★★★ (2.67)	★★★ (2.17)	★★★ (2.17)
Is there any indication on the Packaging of expected blood volume	★★★ (0.33)	★★★ (1.00)	★★★ (1.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.50)	★★★★ (2.50)	★★★★ (2.50)
Is the IFU displayed on the Packaging or as an IFU leaflet	Both	Both	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★ (1.83)	★★★★ (2.50)	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★ (1.71)	★★★ (2.17)	★★★ (2.17)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Number of steps required to prepare the device for use	2	1	1
The product can be prepared without any premature activation	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)
Ease of positioning over puncture site	★★★ (1.71)	★★★ (1.86)	★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.29)	★★★★ (2.29)	★★★★ (2.29)
Force required for activation	★★★ (1.86)	★★★ (2.00)	★★★ (2.00)
The product activates everytime %	97.1%	99.3%	99.3%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★★ (2.43)	★★★★ (2.43)
Feel in the hand, secure in the grip	★★★ (2.00)	★★★ (2.08)	★★★ (2.08)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★★ (2.29)	★★★ (1.57)	★★★ (1.57)
Can a used lancet be differentiated against an unused one	★★★ (2.00)	★★★ (0.71)	★★★ (0.71)
Following activation the needle is fully retracted	✓	✓	✓
The device cannot be rearmed	★★★★ (2.29)	★★★ (2.14)	★★★ (2.14)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)
Does the Packaging indicate ability for standard recycling	X	X	X

SINGLE USE SAFETY BLOOD LANCETS



SPIRIT HEALTHCARE LTD



BRAND	Medlance Plus	Medlance Plus	Steriheel	Vitrex Sterilance Flex	Vitrex Sterilance Lite II	Vitrex Sterilance Lite II	Vitrex Sterilance Press II
MANUFACTURER	HTLSTREFA-SA	HTLSTREFA-SA	Sterilance Medical	Vitrex Medical	Vitrex Medical	Vitrex Medical	Vitrex Medical
TYPE OF LANCET (NEEDLE OR BLADE)	Blade	Needle	Blade	Needle	Needle	Blade	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	200	200	50	100	100	100	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Pressure	Side Trigger	Pressure	Side Trigger	Side Trigger	Pressure
PENETRATION METHOD	Puncture	Puncture	Incision	Puncture	Puncture	Puncture	Puncture
FEATURE				Multi Depth 3 settings			
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	0.8mm x 2.0mm	21G x 1.8mm 21G x 2.4mm 25G x 1.5mm	1.75mm x 0.85mm = < 80µl 2.5mm x 1mm = < 120µl 2.8mm x 1.4mm = < 150 µl	28G x Multi Depth (1.2, 1.8, 2.4mm) = (5 - 20µl)	21G x 1.8mm = (5-50µl) 21G x 2.4mm = (5-5µl) 26G x 1.8mm = (5 - 30µl) 26G x 2.4mm = (5 - 30µl) 28G x 1.8mm = (5-20µl) 30G x 1.8mm = ??	18G Blade X 1.8mm = (40 - 150µl)	18G x 1.8mm = (40- 150µl) 21G x 1.8mm = (5 - 50µl) 21G x 2.2mm = (5 - 50µl) 21G x 2.8mm = (5 - 50µl)
CLINICAL CRITERIA	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.83)	★★★ (1.83)	★★★ (2.17)	★★★ (2.17)	★★★ (2.17)
Is it easy to identify the product penetration depth	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.83)	★★★ (2.00)	★★★ (2.33)	★★★ (2.33)	★★★★ (2.33)
Is it easy to identify product gauge or length of incision	★★★★ (2.83)	★★★★ (2.83)	★★★★ (2.83)	★★★ (2.00)	★★★ (2.33)	★★★★ (2.33)	★★★★ (2.33)
Is there any indication on the Packaging of expected blood volume	★★★ (2.00)	★★★ (2.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (2.67)	★★★ (2.67)	★★★★ (2.83)	★★★ (2.67)	★★★ (2.67)	★★★★ (2.67)	★★★★ (2.67)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	Packaging	Both	Packaging	Packaging	Packaging	Packaging
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.50)	★★★★ (2.50)	★★★ (2.17)	★★★ (2.67)	★★★ (2.67)	★★★★ (2.67)	★★★★ (2.67)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)	★★★ (2.07)	★★★ (2.07)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (2.00)	★★★ (2.00)	★★★ (2.00)	★★★★ (2.86)	★★★★ (2.86)	★★★★ (2.86)	★★★★ (2.86)
Number of steps required to prepare the device for use	1	1	2	1	1	1	1
The product can be prepared without any premature activation	★★★ (1.93)	★★★ (1.93)	★★★ (2.00)	★★★ (2.00)	★★★ (1.76)	★★★ (1.76)	★★★ (1.86)
Ease of positioning over puncture site	★★★ (1.81)	★★★ (1.81)	★★★ (1.57)	★★★ (1.71)	★★★ (2.00)	★★★ (2.00)	★★★ (1.57)
Indication of activation (Audible click)	★★★ (2.43)	★★★★ (2.43)	★★★★ (2.29)	★★★ (2.29)	★★★ (2.15)	★★★ (2.15)	★★★ (2.00)
Force required for activation	★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)	★★★ (2.14)	★★★ (2.07)	★★★ (2.07)	★★★ (2.14)
The product activates everytime %	97.9%	97.9%	91.4%	100%	94.3%	94.3%	97.1%
The lancing end of the lancet is clear and distinctive	★★★ (2.00)	★★★ (2.00)	★★★ (2.14)	★★★ (2.14)	★★★ (1.57)	★★★ (1.57)	★★★ (1.71)
Feel in the hand, secure in the grip	★★★ (1.89)	★★★ (1.89)	★★★ (2.14)	★★★ (2.14)	★★★ (1.86)	★★★ (1.86)	★★★ (2.14)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)	★★★ (2.14)	★★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (1.71)	★★★ (1.71)	★★★ (1.29)	★★★ (0.86)	★★★ (1.71)	★★★ (1.71)	★★★ (0.86)
Following activation the needle is fully retracted	✓	✓	✓	✓	✓	✓	✓
The device cannot be rearmed	★★★ (2.29)	★★★★ (2.29)	★★★ (2.14)	★★★ (2.14)	★★★ (1.43)	★★★ (1.43)	★★★ (1.86)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.18)	★★★ (2.18)	★★★ (2.00)	★★★ (2.00)	★★★ (1.57)	★★★ (1.57)	★★★ (2.00)
Does the Packaging indicate ability for standard recycling	✓	✓	✗	✗	✗	✗	✗

SINGLE USE SAFETY BLOOD LANCETS



VITAL CARE



BRAND	Vitrex Sterilance Flex	Vital Care Lite
MANUFACTURER	Vitrex Medical	Vitrex Medical
TYPE OF LANCET (NEEDLE OR BLADE)	Needle	Needle
QUANTITY OF LANCETS IN THE PACKAGING / BAG	100	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Pressure	Side Trigger
PENETRATION METHOD	Puncture	Puncture
FEATURE	Multi Depth 3 settings	Pain Reducing Feature
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	26G x Multi Depth (1.2, 1.8, 2.4mm) = ?? 28G x Multi Depth (1.2, 1.8, 2.4mm) = (5 - 20µl)	21G x 1.8mm 21G x 2.4mm 21G x 2.8mm 26G x 1.8mm
CLINICAL CRITERIA	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (1.83)	★★★★ (2.67)
Is it easy to identify the product penetration depth	★★★ (2.00)	★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★ (2.00)	★★★ (2.00)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★★ (2.67)	★★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	Packaging	IFU
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (2.67)	★★★★ (2.50)
Easy to know how to use (intuitive)	★★★ (2.14)	★★★ (2.14)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★★ (2.86)	★★★ (1.00)
Number of steps required to prepare the device for use	1	1
The product can be prepared without any premature activation	★★★ (2.00)	★★★★ (2.29)
Ease of positioning over puncture site	★★★ (1.71)	★★★ (1.86)
Indication of activation (Audible click)	★★★★ (2.29)	★★★★ (2.29)
Force required for activation	★★★ (2.14)	★★★ (2.14)
The product activates everytime %	100%	94.3%
The lancing end of the lancet is clear and distinctive	★★★ (2.14)	★★★ (1.71)
Feel in the hand, secure in the grip	★★★ (2.14)	★★★ (2.00)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (2.14)
Can a used lancet be differentiated against an unused one	★★★ (0.86)	★★★ (1.29)
Following activation the needle is fully retracted	✓	✓
The device cannot be rearmed	★★★ (2.14)	★★★ (2.00)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.00)	★★★ (1.43)
Does the Packaging indicate ability for standard recycling	X	X

SINGLE USE SAFETY BLOOD LANCETS



WERFEN



BRAND	Tenderfoot	Tenderlett
MANUFACTURER	Accuriva Diagnostics	ITC USA
TYPE OF LANCET (NEEDLE OR BLADE)	Blade	Blade (Finger)
QUANTITY OF LANCETS IN THE PACKAGING / BAG	50	100
TYPE OF ACTIVATION METHOD (TOP BUTTON, SIDE BUTTON, PRESSURE)	Side Trigger	Top Button
PENETRATION METHOD	Incision	Incision
FEATURE		
RANGE (GAUGE OR LENGTH X DEPTH) AVERAGE EXPECTED BLOOD VOLUME OR RANGE, AS PROVIDED BY THE SUPPLIER	1.4mm x 0.65mm 1.75mm x 0.85mm 2.5mm x 1mm 3mm x 2mm	0.94mm X 1.75mm
CLINICAL CRITERIA	SCORE	SCORE
Is it easy to identify the Product Type e.g. (Needle / Blade)	★★★ (1.83)	★★★ (1.17)
Is it easy to identify the product penetration depth	★★★ (0.00)	★★★ (2.00)
Is it easy to identify product gauge or length of incision	★★★ (0.00)	★★★ (0.00)
Is there any indication on the Packaging of expected blood volume	★★★ (0.00)	★★★ (0.00)
Does the packaging clearly show the details for the product inside and not the range or a generic image	★★★ (0.00)	★★★ (2.33)
Is the IFU displayed on the Packaging or as an IFU leaflet	IFU	IFU
Is the Expiry Date & Lot Number or Manufacturing Date & Shelf Life Clearly visible	★★★★ (3.00)	★★★ (1.83)
Easy to know how to use (intuitive)	★★★ (2.00)	★★★★ (2.67)
Can the Packaging be used as a dispenser (not too small or flimsy)	★★★ (1.00)	★★★★ (2.50)
Number of steps required to prepare the device for use	2	1
The product can be prepared without any premature activation	★★★ (2.00)	★★★ (2.00)
Ease of positioning over puncture site	★★★ (1.86)	★★★ (2.23)
Indication of activation (Audible click)	★★★★ (2.29)	★★★ (2.17)
Force required for activation	★★★ (2.14)	★★★ (1.83)
The product activates everytime %	100%	100%
The lancing end of the lancet is clear and distinctive	★★★ (2.00)	★★★ (1.67)
Feel in the hand, secure in the grip	★★★ (2.14)	★★★ (1.83)
After the initial activation the lancet does NOT continue to click or give an impression of firing	★★★ (2.14)	★★★ (2.17)
Can a used lancet be differentiated against an unused one	★★★ (1.83)	★★★ (0.00)
Following activation the needle is fully retracted	✓	✓
The device cannot be rearmed	★★★ (2.00)	★★★ (2.17)
Is the product suitably robust so that it is unable to be broken open by hand without tools?	★★★ (2.00)	★★★ (1.50)
Does the Packaging indicate ability for standard recycling	✗	✗

7. Further Considerations and Recommendations

There is no standard or consistency between the approach manufacturers take to obtain blood samples, some go deep with narrow gauges whilst others choose to go shallow and wide-bore, comparing like for like is not always possible.

Within Single-Use Safety Blood Lancets there is no standard for flow rates or colour coding. NHS Supply Chain should work with the industry to introduce some conformity by blood volume groups which would have a colour standard attached. Below is an example of how this could look.

Needle		
Blood Volume Microlitres	Group	Colour
<100	Low Flow	Blue
100 to 200	Medium Flow	Green
>200	High Flow	Orange
Blade		
<100	Low Flow	Blue
100-150	Medium Flow	Green
>150	High Flow	Orange

There are a number of hospital trusts throughout the country that have with clinical support successfully rationalised their product range to 1 or 2 needle lancets and 1 variety of blade lancet across all departments and grouping would be a start in bringing order to a fragmented marketplace.

7.1 Future recommendations

Packaging

- Ensure that the type of product is clearly identified on the box.
- Display an expected blood volume scale (Blood droplets / flow rate) as discussed above.
- Only display image of the product in the box not the full range available, unless it is very clear which product is contained in the box.

Opening

- Products should not activate prematurely when preparing for use.

Clinical Use

- Colour coding based upon flow rate across all manufacturers as discussed above.

- There should only be 1 audible click at point of activation, further clicks should not occur as this reduces confidence of clinicians of patients.

Disposal / Safety

- Ensuring that the device cannot be re-armed and that a used lancet can be distinguished from an unused product.
- Minimise excess packaging and ensure that the recycling information is clearly displayed.

NHS Supply Chain

- Product data sheets which includes information on properties to be published on the NHS Supply Chain online catalogue and supplier websites for ease of review when required.
- Remove the duplication where multi suppliers are providing the exact same product at different prices in line with Lord Carters report on unwarranted variation. (Department of Health and Social Care, 2016)

7.2 Barcodes

The CET are aware of the Scan4Safety project and are aligned with the ambitions of the programme, which will deliver significant benefits in terms of patient safety and efficiency, to the NHS. The adoption of standards, driven by Scan4Safety, enables patient, product and location identification and traceability from the supply chain to the patient.

Adoption of these standards has also been shown to improve the quality of care by minimising the risk of human error.

The CET will be considering the inclusion of an evaluation criteria relating to the presence of GS1 compliant barcodes in future reports, as following our clinical conversations we have seen clinical staff asking for it to be included, but further information will be issued by the CET on this to stakeholders in advance.

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‘Quality, safety and value are at the heart of our work and it’s important that we use our clinical experience to deliver high standards of care while reducing cost and waste in the NHS.’

Mandie Sunderland
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