Products “Real-World” Practitioners Use and Value Most

Gordon’s Clinical Bottom Line: During dental school, we were taught to use techniques and materials that our instructors thought were best. Currently, all of us use techniques and materials that we have personally found to be effective. The Clinicians Report® survey summarized in this article included all areas of dentistry, and you will see many well-known products listed. However, undoubtedly, there are other products in each category that are excellent but are not as popular. This report identifies products that experienced, “real-world” practitioners use and value most. The survey results represent thousands of years of successful use in dental practice.

The survey results in this article are undoubtedly many of the best products in dentistry. Compare these products with those you currently use. It will probably agree significantly with what you have already determined. For many years, Gordon has counseled manufacturers that for a product to be successful, it must be faster, easier, better, and less expensive than similar products currently on the market. Lack of any one or more of these four characteristics usually condemns the product. The six products pictured here are the most reported products in this CR survey.

The information in this report will help you to better treat your patients with confidence knowing that others also consider these products to be valuable and successful.

Continued on page 2

Smaller and Lighter LED Headlamps

Gordon’s Clinical Bottom Line: Magnifying loupes of 2.5X to 4.0X have become popular during my career, and they are in almost universal use. Coming along later has been headlamps which improve treatment by directing light along the line of sight, eliminating most shadows. Both loupes and headlamps have improved greatly over recent years. The major change is to smaller and lighter-weight devices. CR scientists have evaluated the latest models of “mini” headlamps. Look over the data provided; you probably need and want a new headlamp.

Headlamps are rapidly changing. Just a few years ago most lights sat on the countertop with a fiber optic tether to the clinician and were used almost exclusively for surgery. With the advent of white light emitting diodes (LEDs) which use less power and run cooler, the light source could be mounted directly on the loupes with a battery pack worn on the body. Significant activity in small, lightweight headlight development was stimulated by the introduction of the Featherlight headlight by Ultralight Optics. The future promises continued miniaturization and improvements.

Technical challenges include: generating high intensity output from a small, low-power light source; designing optics for a uniform and well-defined field of light; controlling and dissipating heat; and producing white light for natural-looking tissue color without the blue tint.

A recent user survey indicated that the most desired headlamp improvements were: 1) lighter weight, 2) lower cost, and 3) elimination of the cord. Since the last CR review of headlamps in May 2009, the average weight has dropped from 33 grams to only 11 grams, helping alleviate the greatest complaint. The following report shows the characteristics of eight of the smallest, lightest-weight headlamps currently available.

Continued on page 6
### Clinicians Report

**April 2012**

**Products “Real-World” Practitioners Use and Value Most (Continued from page 1)**

**Survey Protocol:** Clinicians Report Board of Directors, Project Directors, Evaluators, and Leadership received a questionnaire asking for the products they use and value most. The products they reported are listed below in 15 major categories, followed by minor subcategories, and finally identifying the most reported brand names in alphabetical order. When many practitioners express the usefulness of products, the products have to be working well and providing better oral health care for patients. Please remember that the specific products identified are mature products and that new products may be comparable or better.

### Caries Detection Systems

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>CarieScan Pro</td>
<td>Careiscan.com</td>
<td><a href="http://www.cariescan.com">www.cariescan.com</a></td>
</tr>
<tr>
<td>Diagnodent</td>
<td>Kaiyo, <a href="http://www.kavousa.com">www.kavousa.com</a></td>
<td></td>
</tr>
<tr>
<td>Logicom</td>
<td>Carestream Dental, <a href="http://www.carestreamdental.com">www.carestreamdental.com</a></td>
<td></td>
</tr>
<tr>
<td>SoproLife</td>
<td>Acteon, <a href="http://www.us.aecteongroup.com">www.us.aecteongroup.com</a></td>
<td></td>
</tr>
<tr>
<td>Spectra</td>
<td>Air Techniques, <a href="http://www.airtechniques.com">www.airtechniques.com</a></td>
<td></td>
</tr>
</tbody>
</table>

### Intraoral Cameras

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kodak 1500</td>
<td>Carestream Dental, <a href="http://www.carestreamdental.com">www.carestreamdental.com</a></td>
<td></td>
</tr>
<tr>
<td>SoproLife</td>
<td>Acteon, <a href="http://www.us.aecteongroup.com">www.us.aecteongroup.com</a></td>
<td></td>
</tr>
<tr>
<td>Sunicam II</td>
<td>Suni Medical Imaging, <a href="http://www.suni.com">www.suni.com</a></td>
<td></td>
</tr>
<tr>
<td>USBcam</td>
<td>Schick Technologies, <a href="http://www.schicktech.com">www.schicktech.com</a></td>
<td></td>
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</table>

### Magnification

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loupes</td>
<td>Designs For Vision, <a href="http://www.designforvision.com">www.designforvision.com</a></td>
<td></td>
</tr>
<tr>
<td>Orascoptic</td>
<td><a href="http://www.orascoptic.com">www.orascoptic.com</a></td>
<td></td>
</tr>
<tr>
<td>Surgitrel</td>
<td><a href="http://www.surgitrel.com">www.surgitrel.com</a></td>
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</tbody>
</table>

### Caries Detection Systems

#### Current radiographs do not show initial interproximal lesions

### Intraoral Cameras

#### Significant controversy on best endodontics

### Magnification

#### Direct resin veneers at 2 years

### Endodontics

#### Apex Locator

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apex Locator Mini</td>
<td>Sybron Endo, <a href="http://www.sybronendo.com">www.sybronendo.com</a></td>
<td></td>
</tr>
<tr>
<td>Foramatron D-10</td>
<td>Parkell, <a href="http://www.parkell.com">www.parkell.com</a></td>
<td></td>
</tr>
<tr>
<td>Root ZX and Root ZX Mini</td>
<td>J. Morita, <a href="http://www.morita.com/usa">www.morita.com/usa</a></td>
<td></td>
</tr>
</tbody>
</table>

#### Apex Locator

<table>
<thead>
<tr>
<th>Product</th>
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<tbody>
<tr>
<td>Apex Locator Mini</td>
<td>Sybron Endo, <a href="http://www.sybronendo.com">www.sybronendo.com</a></td>
<td></td>
</tr>
<tr>
<td>Foramatron D-10</td>
<td>Parkell, <a href="http://www.parkell.com">www.parkell.com</a></td>
<td></td>
</tr>
<tr>
<td>Root ZX and Root ZX Mini</td>
<td>J. Morita, <a href="http://www.morita.com/usa">www.morita.com/usa</a></td>
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#### ProFiles and rotary motors,

<table>
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<tr>
<th>Manufacturer</th>
<th>Website</th>
</tr>
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<tr>
<td>Dentsply Tulsa, <a href="http://www.tulsadentalspecialties.com">www.tulsadentalspecialties.com</a></td>
<td></td>
</tr>
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</table>

#### WaveOne Files and motor,

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Website</th>
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</thead>
<tbody>
<tr>
<td>Dentsply Tulsa, <a href="http://www.tulsadentalspecialties.com">www.tulsadentalspecialties.com</a></td>
<td></td>
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</tbody>
</table>

### Filler or Sealer

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>EndoRez</td>
<td>Ultradent, <a href="http://www.ultradent.com">www.ultradent.com</a></td>
<td></td>
</tr>
<tr>
<td>Gutta percha</td>
<td>various companies</td>
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<tr>
<td>Guttacore</td>
<td><a href="http://www.tulsadentalspecialties.com">www.tulsadentalspecialties.com</a></td>
<td></td>
</tr>
<tr>
<td>Resilon</td>
<td>various companies</td>
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### Endodontics

#### Significant controversy on best endodontics

### Whitening

<table>
<thead>
<tr>
<th>Product</th>
<th>Manufacturer</th>
<th>Website</th>
</tr>
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<tbody>
<tr>
<td>Dash/NiteWhite</td>
<td>Philips, <a href="http://www.philipsoralhealthcare.com">www.philipsoralhealthcare.com</a></td>
<td></td>
</tr>
<tr>
<td>Opalescence</td>
<td>Ultradent, <a href="http://www.ultradent.com">www.ultradent.com</a></td>
<td></td>
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</table>

### Whitening

#### Direct resin veneers at 2 years

### Endodontics

#### Current radiographs do not show initial interproximal lesions

### Whitening

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### Whitening

#### Direct resin veneers at 2 years
# Clinicians Report

## Products “Real-World” Practitioners Use and Value Most (Continued from page 2)

### Occlusion

<table>
<thead>
<tr>
<th>Articulators and Facebows</th>
<th>Occlusal Marking Media</th>
<th>Splints</th>
</tr>
</thead>
</table>

**Articulators and Facebows**
- Panadent, www.panadent.com
- Whip Mix, www.whipmix.com

**Occlusal Marking Media**
- Accufilm II, Parkell, www.parkell.com
- Madame Butterfly, Almore, www.almore.com

**Splints**
- Comfort H/S Bite Splints, Glidewell, www.glidewell.com
- NTI-TSS Plus, Keller Lab, www.kellerlab.com

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### Operative Dentistry

<table>
<thead>
<tr>
<th>Etch</th>
<th>Matrices</th>
<th>Restorative Materials/Adhesives</th>
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</thead>
<tbody>
<tr>
<td>Vitrebond Plus, 3M ESPE, <a href="http://www.3mespe.com">www.3mespe.com</a></td>
<td></td>
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</tr>
</tbody>
</table>

**Etch**
- UltraEtch, Ultradent, www.ultradent.com

**Handpieces, Electric and Air Driven**
- Kavo air and electric, Kavo, www.kavousa.com
- Midwest Stylus ATC, Dentsply Professional, www.stylusatc.com
- Ti-Max NL 400, Brasseler, www.brasselerusa.com

**Liner**
- Fuji Lining LC, GC America, www.gcamerica.com
- Vitrebond Plus, 3M ESPE, www.3mespe.com

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### Oral and Maxillofacial Radiology

<table>
<thead>
<tr>
<th>Digital Radiography</th>
<th>Panoramic</th>
</tr>
</thead>
</table>

**Digital Radiography**
- CDR, Schick Technologies, www.schicktech.com
- Dexis Platinum, Dexis, www.dexis.com
- GXS-700, Gendex, www.gendex.com
- Kodak RVG 6100, Carestream Dental, www.carestreamdental.com
- ScanX, Air Techniques, www.airtechniques.com

**Panoramic**
- Belmont, www.takarabelmont.com
- Gendex, www.gendex.com
- Kodak, www.carestreamdental.com
- Planmeca, www.planmeca.com
- Soredex, www.soredex.com

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### Oral and Maxillofacial Surgery

<table>
<thead>
<tr>
<th>Anesthetics</th>
<th>Graft Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidocaine, various companies</td>
<td>Bio-Oss, Geistlich, <a href="http://www.geistlichonline.com">www.geistlichonline.com</a></td>
</tr>
<tr>
<td>JS Dental, <a href="http://www.jsdental.com">www.jsdental.com</a></td>
<td></td>
</tr>
</tbody>
</table>

**Anesthetics**
- Lidocaine, various companies
- Septocaine (articaine), Septodont, www.septodontusa.com

**Collagen Plugs**
- CollaPlug, Zimmer, www.zimmer.com
- OraPlug, Salvin, www.salvin.com

**Elevators, Luxators, Periotomes, and Proximators**
- Karl Schumacher, www.karlsschumacher.com
- JS Dental, www.jsdental.com

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### Orthodontics

<table>
<thead>
<tr>
<th>Minor Tooth Movement</th>
<th>Restorative Materials</th>
<th>Sealants</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RIVA Light Cure HV, SDI, <a href="http://www.sdi.com.au">www.sdi.com.au</a></td>
<td></td>
</tr>
</tbody>
</table>

**Minor Tooth Movement**
- Invisalign, Align Technology, www.aligntech.com
- Clear Correct, Clear Correct, www.clearcorrect.com
- MTM, Dentsply Raintree Essix, www.essix.com

**Restorative Materials**
- Fuji II LC, GC America, www.gcamerica.com
- Fuji IX GP Extra, GC America, www.gcamerica.com
- Ketac Nano, 3M ESPE, www.3mespe.com

**Sealants**
- Clinpro Sealant, 3M ESPE, www.3mespe.com
- Delton, Dentsply Preventive, www.dentsply.com
- UltraSeal XT Plus, Ultradent, www.ultradent.com

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### Pediatric Dentistry

<table>
<thead>
<tr>
<th>Anxiety Management</th>
<th>Restorative Materials</th>
<th>Sealants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrous Oxide, various companies</td>
<td>Fuji II LC, GC America, <a href="http://www.gcamerica.com">www.gcamerica.com</a></td>
<td>Clinpro Sealant, 3M ESPE, <a href="http://www.3mespe.com">www.3mespe.com</a></td>
</tr>
</tbody>
</table>

**Anxiety Management**
- Nitrous Oxide, various companies

**Crowns**
- Stainless Steel Crowns, 3M ESPE, www.3mespe.com
PERIODONTICS

Chlorhexidine Gluconate
Gum CHX Rinse (Butler), Sunstar Americas, www.sunstar.com
Periex, 3M ESPE, www.3mespe.com
Perioguard, Colgate Oral Pharmaceuticals, www.colgateprofessional.com

Laser
Variety of wavelengths; no most popular brand

Local Antibiotic Treatment
Arestin, Oraphorema, www.oraphorema.com
Atridox, Zila, www.zila.com
PerioProtect, PerioProtect, www.perioprotection.com

Profound Topical Anesthetic
Oraqix, Dentsply Pharmaceutical, www.oraqix.com

Scalers and Air Polishers

Gracey Curettes, various companies
Swivel XT, Hu-Friedy, www.hu-friedy.com

PREVENTIVE DENTISTRY

Fluoride
Armour R (varnish), Masco Dental, www.mascodental.net
Clinpro 5000 (dental), 3M ESPE, www.3mespe.com
Iris (varnish), Benco Dental, www.benco.com
Prevident 5000 ppm (dentin), Colgate Oral Pharmaceuticals, www.colgateprofessional.com
Varnish America (varnish), Medical Products Labs, www.mplusa.com

Toothbrushes
Gum (Butler), Sunstar Americas, www.sunstar.com
Oral-B Vitality & Professional Care, Procter & Gamble, www.orall.com

PROSTHODONTICS—FIXED

Cements
FujiCEM, GC America, www.gcamerica.com
RelyX Luting Plus, 3M ESPE, www.3mespe.com
RelyX Unicem (newest version), 3M ESPE, www.3mespe.com

Impression Materials
Aquasil Ultra Xtra, Dentsply Caulk, www.dentsply.com
Imprint 3, 3M ESPE, www.3mespe.com

Impression Trays
Quad Tray, Clinicians Choice, www.clinicianschoice.com
Triple Tray (sideless), Premier Dental, www.premusa.com

Indirect Restorations, Tooth Color
Lava (zirconia-based), 3M ESPE, www.3mespe.com

Procelain Polish
Dialite, Brasseler, www.brasselerusa.com
DiaShine, VH Technologies, www.vhtech.com

Posts
D.T. Light-Post, Bisco, www.bisco.com
FibreKleer, Pentron, www.pentron.com

Pressure Indicators
Fit Checker, GC America, www.gcamerica.com
Pressure Indicating Paste (PIP), Keystone Industries, www.keystoneind.com

Provisional Materials
Luxatemp, DMG America, www.dmg-america.com
Protemp Plus, 3M ESPE, www.3mespe.com

PROSTHODONTICS—REMOVABLE

Attachments
ERA, Sterngold, www.sterngold.com
Locators, Zest Anchors, www.zestanchors.com
MDI O-Ball, 3M ESPE, www.3mespe.com

Flexible Removable Partial Dentures
Flexite, Flexite, www.flexitecompany.com
Sunflex, Sun Dental Labs, www.sunflexpartials.com
Valplast, Valplast Int’l, www.valplast.com

Impressions
Impregum and Permadyne, 3M ESPE, www.3mespe.com
Triad Tray Material, Dentsply Prosthetics, www.dentsply.com

Quick Setting Stone
Snap-Stone, Whipmix, www.whipmix.com

Soft Reline
Perma Soft, Dentsply, www.dentsply.com

CR Conclusions: Products that appear promising can be easily identified as they enter the market. However, a product that looked good at first may not be as good over a period of use as it originally appeared. This Clinicians Report contains the long-term opinions and observations of many CR Project Directors, Board of Director members, Evaluators, and leaders on their most valued and proven products. Basic science, in-vitro research, and short-term clinical use observations are mandatory for product introduction, but, as we have always said, long-term clinical observation is “the final test.”
CE Self-Instruction Test—April 2012

1. Digital radiography is:
   - A. Difficult to accomplish
   - B. Less expensive than analog radiography
   - C. Considered to be state-of-the-art
   - D. None of the above

2. The most popular local anesthetic in dentistry is:
   - A. Lidocaine
   - B. Mepivacaine
   - C. Articaine
   - D. Prilocaine

3. Implant placement for healthy patients with good bone is:
   - A. A very difficult procedure
   - B. A very simple procedure
   - C. A simple procedure
   - D. None of the above

4. Bruxers and clenchers:
   - A. Are always male
   - B. Need occlusal splints
   - C. Are not commonly observed
   - D. Usually do not wear their teeth excessively

5. Senile caries:
   - A. Is always rapidly progressing
   - B. Is always slowly progressing
   - C. Is a major problem
   - D. Can be best restored with composite resin

6. Dentin bonding systems:
   - A. Are all the same
   - B. Are a very confusing subject
   - C. Always require total etching
   - D. Always eliminate postsurgical tooth sensitivity

7. The most reported apex locator is:
   - A. Guttascore
   - B. EndoRez
   - C. Root ZX
   - D. Resilon

8. According to the headlamp user survey, which of the following was not one of the top three characteristics needing improvement?
   - A. Greater durability
   - B. Elimination of the cord
   - C. Lighter weight
   - D. Lower cost

9. Which of the following statements about headlamps is true?
   - A. All operate at cool temperatures, less than 37° C
   - B. All include a filter to prevent inadvertent polymerization of materials
   - C. All add less than 20 g of weight to the loupes
   - D. All have a fixed high intensity which cannot be adjusted

10. Which clinical tip regarding headlamp use is false?
    - A. Lightweight loupes and headlamps can make head/neck bands optional
    - B. If the light must be touched while gloved, use a gauze pad
    - C. Use a filter to prevent premature cure while placing materials
    - D. Always use the maximum intensity setting

Print Participant Information. For additional participants, photocopy this page and list requested information.

Name ___________________________ Email ___________________________

Address ___________________________ Phone ___________________________

City ___________________________ State ________ ZIP ________

☐ Please send my tests results directly to the Academy of General Dentistry. (AGD# ___________________________

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## Smaller and Lighter LED Headlamps (Continued from page 1)

The following chart shows eight of the smallest LED headlamps. Numerous other brands and models are available and this technology is rapidly evolving. All technical measurements were made at 14 inches (35 cm) from the light and at highest output setting. Each company offers clips and mounts to make their headlamp compatible with most loupes and eyewear.

### Controls

<table>
<thead>
<tr>
<th>Brand/Company</th>
<th>Product Photo</th>
<th>Warranty</th>
<th>Orange Filter</th>
<th>User-Replaceable Cord</th>
<th>Battery Life*</th>
<th>Bezels Temperature*</th>
<th>Total Weight</th>
<th>Spot (Diameter at 14 inch distance)</th>
<th>Overall Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odyssey Micro Neutral Color SurgiTel</td>
<td><img src="image" alt="Product Photo" /></td>
<td>1 year</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~2.1 hr recharge</td>
<td>50° C</td>
<td>5.0 cm</td>
<td>9.0 cm</td>
<td>Excellent</td>
</tr>
<tr>
<td>MicroLine Mini Headlight PeriOptix</td>
<td><img src="image" alt="Product Photo" /></td>
<td>1 year</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~2.5 hr recharge</td>
<td>40° C</td>
<td>6.5 cm</td>
<td>7.5 cm</td>
<td>Excellent</td>
</tr>
<tr>
<td>LumaDent</td>
<td><img src="image" alt="Product Photo" /></td>
<td>2 years</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~4.3 hr recharge</td>
<td>40° C</td>
<td>8.0 cm</td>
<td>8.0 cm</td>
<td>Excellent–Good</td>
</tr>
<tr>
<td>Air Feather Light Ultrasight Optics</td>
<td><img src="image" alt="Product Photo" /></td>
<td>2 years</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~2.7 hr recharge</td>
<td>40° C</td>
<td>8.0 cm</td>
<td>4.0 hours</td>
<td>Excellent</td>
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<tr>
<td>Ultra Mini Designs for Vision</td>
<td><img src="image" alt="Product Photo" /></td>
<td>Pre-production model</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~2.1 hr recharge</td>
<td>40° C</td>
<td>8.0 cm</td>
<td>7.5 hours</td>
<td>Excellent–Good</td>
</tr>
<tr>
<td>Zeon Endeavour Orascoptic</td>
<td><img src="image" alt="Product Photo" /></td>
<td>Pre-production model</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~3.3 hr recharge</td>
<td>51° C</td>
<td>7.5 cm</td>
<td>9.0 cm</td>
<td>Excellent–Good</td>
</tr>
<tr>
<td>Nano Loupe Light Dentlight</td>
<td><img src="image" alt="Product Photo" /></td>
<td>Pre-production model</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~3.3 hr recharge</td>
<td>51° C</td>
<td>7.5 cm</td>
<td>9.0 cm</td>
<td>Excellent–Good</td>
</tr>
<tr>
<td>Task Vision Lana LED Clip-On Headlight Vision USA</td>
<td><img src="image" alt="Product Photo" /></td>
<td>Pre-production model</td>
<td>Yes, removable</td>
<td>Yes, entire cord</td>
<td>~3.3 hr recharge</td>
<td>51° C</td>
<td>7.5 cm</td>
<td>9.0 cm</td>
<td>Excellent–Good</td>
</tr>
</tbody>
</table>

### Clinical Tips

- **Intensity:** Headlamps with adjustable output and that retain the last setting are preferred. Best visual acuity is achieved with the intensity set just below what the eyes perceive as bright. Higher magnification requires more light.
- **Position:** Headlamps are generally positioned above the loupes (or eyes) to reduce reflected light (glare) while minimizing shadows.
- **Filters:** Flip-down filters block blue light to prevent premature cure while placing materials. If filter is not desired, simply turn off the light or aim it to the side during placement.

### CR Conclusions:

LED headlamp technology has rapidly improved. All of the miniature headlamps evaluated provided good to excellent illumination and visualization of oral tissues with minimal added weight. All were easy to use, featured adjustable intensity, and provided adequate white light. Odyssey Micro Neutral Color received high ratings for tissue color accuracy, Air Feather Light had lowest overall weight, and LumaDent had good combination of low cost and features. All headlamps performed well and clinicians can base purchase decision on desired features, mounting options for their loupes, and cost. Most clinicians indicated that the combination of loupes and headlamps significantly improves the quality of care they can provide.