Thermography and Dental Pathology – Part 1

Presented by
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Dental-Related Infections

- Decay, whether above or below the gum line, is the result of microbial infection.

- When the gum bleeds or the gum or tooth enamel is breached, there is an opportunity for microbial invasion. Microbes may enter the pulp, root and the bone surrounding the tooth.

- Infections below the gum line and osteonecrosis of the jaw, which occurs under the gum line, may remain invisible to oral exam and dental x-ray.

- Patients typically feel nothing (unless abscess results in pus buildup).
Tooth Anatomy

Crown

Root

Cementum (containing Periodontal membrane)

Enamel
Dentin
Pulp
Gums
Bone
Root Canal
Nerves and blood vessels

Source: https://upload.wikimedia.org/wikipedia/commons/9/99/Blausen_0863_ToothAnatomy_02.png
Tooth/Bone Anatomy

Tubule density is 59,000 to 76,000 per square millimeter near the pulp.

Source: https://en.wikipedia.org/wiki/Dentin

Each tooth contains miles and millions of tubules, ultimately connecting pulp to gum and bone tissue.

Source: http://periojehng.com/Periodontium/img/5.jpg
Dental-Related Infections

- While such infections may compromise the immune system and contribute to chronic inflammation, they become silent killers when resulting disease, cancers or heart attacks cause death.

- Since infections typically create inflammation and heat, thermography may provide early warning.

- In addition, dental-related issues may cause energetic disruption of meridian flow, reduce energetic nourishment to connected organs, and result in distal symptoms or disease:
# Teeth/Socket and Body Connections

Be advised that an issue in one tooth socket can cross over one socket, so consider adjacent tooth-organ connections too.

<table>
<thead>
<tr>
<th>Left</th>
<th>Right</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heart, Small Int., Circulation, Sex, Endocrine</td>
<td>Lung, Large Intestine, Pancreas, Gallbladder, Kidney, Bladder</td>
</tr>
<tr>
<td>Shoulder, Elbow, Arm, Middle Ear, Peripheral Nerves</td>
<td>Sinus, Paranasal and Ethmoid, Bronchus, Nose</td>
</tr>
<tr>
<td>Loneliness, Acute Grief, Humiliated, Trapped, Inhibited, Lack, Joy, Greed, Not lovable,</td>
<td>Chronic Grief, Overcritical SADNESS, Controlling, Feeling trapped, Dogmatic, Compulsive, Uplight</td>
</tr>
<tr>
<td>Anxiety, Self-Punishment, Broken Power, Hate, Low-self-worth, Obsessed</td>
<td>Anxiety, Resentment, Frustration, Blaming, Incapable to take action, Manipulative</td>
</tr>
<tr>
<td>Chronic Grief, Overcritical SADNESS, Controlling, Feeling trapped, Dogmatic, Compulsive, Uplight</td>
<td>Fear, Shame, Guilt, Broken will, Shyness, Helpless, Deep exhaustion</td>
</tr>
<tr>
<td>Neonatal Fears, Trauma, Amnesia, Sleep disorder</td>
<td>Chronic Grief, Overcritical SADNESS, Controlling, Feeling trapped, Dogmatic, Compulsive, Uplight</td>
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Abridged, from various sources — credits on website: Dr. Ralph Wilson [www.NaturalWorldHealing.com](http://www.NaturalWorldHealing.com)
Dental-Related Thermal Findings

at The Thermogram Center, Inc.

- Dental-related findings are the most common potentially life-threatening early warning sign at The Thermogram Center, Inc.
- We have helped many men and women to observe these warning signs and obtain care.
- There are several dental specialists in Colorado who offer diagnostic evaluation, i.e. 3D Cone Beam Tomography, and perform ozone injection/therapy and/or cavitation surgery.
Dental-Related Thermal Findings

at The Thermogram Center, Inc.

4 Illustrated Examples

I. Normal/Unremarkable Thermal Images - Face

II. Heart Attack Client with Dental-Related Infections

III. Breast Cancer Client with Same-Side Dental-Related Infection

IV. High-Risk Breast Client with Opposite-Side Dental-Related Infection
Normal/Unremarkable Face

Note the cool and symmetrical cheeks, cold nose, and lack of heat around the TMJ.
Dental Infection... Heart Attack?

This 72 year old male had experienced innumerable root canals and decades of dental work which was completed in 1998. In 2007 he suffered a heart attack. When thermally imaged in 2009, he was free of symptoms or concerns for his teeth and therefore surprised when his thermal imaging raised an index of suspicion for dental issues and infection. Since certain dental infections can lead to heart attacks, he followed up with a dental infection specialist and was diagnosed with infections in teeth sockets #15, #18 and #31.
This 46 year old female used thermal imaging in 2010 after having had a mastectomy just over a year earlier. While she hadn’t understood that many teeth sockets can effect the breast, her thermal imaging and tooth+organ chart raised the possibility of a back molar socket infection and breast connection. In the upper right image, lymphatic drainage from the right side of the mouth into the chest is apparent. Subsequent evaluation by a dental specialist diagnosed infection and provided care.
2012 Face images in color. While bilateral lymphatic drainage from the sinuses is apparent, flow is more acute from the left, where there a thermal finding appears. Coincidentally, this is where a tooth was formally root canaled.
The Same Individual - Before and After Effects of Failed Root Canal on the Breasts

Top Row - 2012:
(Former Camera FLIR MT Alert)
Note apparent lymph flow from the neck into the chest and breasts, particularly the right.
R – TH 4, L – TH 2

Bottom Row - 2015:
(Current Camera FLIR A615)
Note the significant reduction in chest inflammation, the increased symmetry between breasts, and the lack of heat/thermal features therein.
R – TH 1, L – TH 1

Evaluation by a dental specialist diagnosed infection subsequent to root canal. Following the extraction of tooth #14 and treatment, the client’s Thermobiological Risk in the right breast decreased from HIGH risk (4) to LOWEST risk (1).
Findings

- Historical findings at The Thermogram Center, Inc. - post diagnoses by dental specialist(s):
  - The most common cause of back quadrant thermal findings (and a thermally hot nose) is clenching (as it aggravates sinus inflammation), which often leads to the implementation of anti-clenching techniques.
  - The most common cause of dental-related thermal findings are infections caused by (in order of prevalence): root canal procedures, tooth extraction/cavitation, and trauma, i.e. cracked teeth/roots (even at an early age).
Conclusions

- Dental-related infections may create thermal findings earlier than other visible signs.
  Note: Thermal findings may result from inflammation associated with TMJ stress/tension, clenching, grinding, bite misalignment, occlusion, etc.

- When thermal findings are present and causes are uncertain, further evaluation with key dental specialists is warranted for accurate diagnosis.

- Prevention may be supported when thermography and key dental specialists team together to ultimately diagnose and treat dental-related infections early and effectively.
For More Information / Questions

- For More Information:
  - Visit www.iaomt.org/intro-articles-biological-dentistry/

- Questions:
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