Tattoo Removal

Jason N. Pozner, MD
Sanctuary Medical Center
Boca Raton, Florida

Evolution of Tattoo Removal

Earliest Options

1980s
- First Aesthetic Lasers – New Options
- Continuous wave CO2 lasers were effective
- Patient side effects unacceptable to most

1991
- Introduction of Short Pulse Q-Switched Lasers
- Ushered in a revolution
- Many tattoos could be cleared effectively
- Greatly reduced side effect profile
- Many treatments generally required

1998-1999
- Researchers identify and confirm that picosecond pulses will be the next revolution in tattoo and pigment removal

2007-2009
- Researchers propose new protocols using conventional nanosecond and fractionated technologies

Tattooing Popularity

- Market Drivers
  - Tattoo Popularity (1)
    - 23% of people in the US have at least 1 tattoo—69,000,000 people.
      (Northwestern University Study, JAAD, June 2006)
    - 30.4% increase over 2003 Harris Interactive study which reported 16% of the US population have at least 1 tattoo

Market Drivers

- 1980s
  - Thermal, Chemical, Mechanical, Surgical

- 1991
  - First Aesthetic Lasers – New Options
  - Continuous wave CO2 lasers were effective
  - Patient side effects unacceptable to most

- 1998-1999
  - Introduction of Short Pulse Q-Switched Lasers
  - Ushered in a revolution
  - Many tattoos could be cleared effectively
  - Greatly reduced side effect profile
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- 2007-2009
  - Researchers propose new protocols using conventional nanosecond and fractionated technologies
Tattoo Market

- Market Drivers
  - Buyers Remorse
    - Tattoo Removal
      - "Tattoo Regret" – driven by changes in life/ circumstances
      - Age, design (names), quality of art, physical condition and more
      - "Tattoo Regret" ranges from a reported 15% to estimated 50% of tattoo wearers

Treatment Complications

- Scars - flat, hypertrophic, or keloid
- Permanent pigmentation changes
  - Hypo and Hyperpigmentation
- Residual tattoo pigment
- Wound infection
- Ineffective overall treatment
- Painful
- Slow process

Previous Tattoo Treatments

- Cryogenics
- Acids
- Retin A
- Hyfercation
- CW Lasers
- Bleaching agents
- Surgical excision
- Abrasives with or without chemicals
- Dermabrasion or salabrasion

Laser Tattoo Treatment

ADVANTAGES

- Non-invasive treatment
- Optimal clearing
- Lower risk of scarring
- Reduced hypo-pigmentation
- No skin texture change
- Less painful
- Minimal post-operative care
- Healing usually in 1-2 weeks

This is ultimate goal – not always possible
Lasers to treat Tattoos & Pigment

- Several lasers exist to treat tattoos and pigmentary lesions
  - Long pulsed alexandrite lasers good for pigment
  - Q-Switched lasers treatment of choice for tattoos and most pigment lesions
    - Alexandrite lasers
    - Nd: YAG lasers

- Note – DO NOT TREAT TATTOOS WITH IPLs

Q-Switched Nd:YAG

- 1064 and 532 nm
- 650 and 585 dye hand pieces
- “Gold Standard” for tattoo removal and pigmented lesions

Oroven technology since 1992 to treat:

- Non-ablative skin rejuvenation
  - Wrinkle reduction
  - Acne scar reduction
- Dermal and Epidermal lesions
- Hair removal
- Multi-color tattoo removal

Flat-Top Beam Profile

- Extremely uniform beam design
- Targets chromophore with accuracy
- Delivers high energy evenly
- Minimizes damage to epidermis
Flat-Top Beam Profile

What does PhotoAcoustic mean?

- Hallmark of PhotoAcoustic delivery: extremely short pulse duration
- Peak power of 200 megawatts in 5–20 nanosecond pulse width
- Combination of high peak power and nanosecond pulse duration produces a PhotoAcoustic effect –
- Completely different than the photothermal effect of most lasers!

Q-switched Nd:YAG pulse

Why is PhotoAcoustic Different?

- Photothermal uses heat to target chromophore
- PhotoAcoustic uses a photomechanical delivery that vibrates/masses to gently shatter chromophore
“Shattering” of molecules may cause subtle wound healing that induces ongoing dermal-collagen remodeling.

- Enables highly effective procedures, safe for all skin types

**RevLite®**

- Latest evolution of MedLite® platform
- Up to 60% more power
- Intuitive touch screen
  - Pre-programmed settings for various indications
  - Ability to create custom settings
- PhotoAcoustic Technology Pulse (PTP = more power)
  - Unique pulse engineering
  - Reduced patient discomfort
  - Clinical advantages for anti-aging procedures and non-ablative skin resurfacing

**PhotoAcoustic Action**

- Enables highly effective procedures, safe for all skin types
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- PhotoAcoustic Technology Pulse (PTP = more power)
  - Unique pulse engineering
  - Reduced patient discomfort
  - Clinical advantages for anti-aging procedures and non-ablative skin resurfacing
ABILITY TO TREAT ALL SKIN TYPES

- 5 – 20 Nanosecond Pulse Duration
- Provides Proper Thermal Relaxation Time (600-800 Microseconds For Skin)
- PhotoAcoustic Tissue Response
- Quick Treatment Times
- Minimal To No Adverse Reactions Or Contraindications

RevLite® with Smart Infinite (SI) Handpiece

- Automatically communicates with the RevLite® each time the spot size is adjusted, eliminating need for manual changes to settings on the laser — minimizing chance for user error
- Automatically adjusts spot size and wavelength to coordinate with the handpiece
- Active monitoring and modification of energy during treatment to ensure consistency and precision

RevLite®

- 1.6 Joule System
- 4 Wavelengths
- PhotoAcoustic Technology Pulse™
- High Energies at Larger Spot Sizes equates to shorter treatment sessions
- Touch Screen User Interface

RevLite® with Smart Infinite (SI) Handpiece

- Allows virtually infinite micro-adjustments in spot size, enabling practitioners to utilize the largest spot size for treatment — at the highest fluence.
- Adjustable spot size range in .1 mm increments while maintaining highest fluence possible
  - 1.8 mm - 8.5 mm in the 1064 nm wavelength,
  - 1.2 mm - 6.0 mm in the 532 nm wavelength
- Allows greater flexibility in PTP (PhotoAcoustic Technology Pulse) mode
Multi-Color Tattoo Removal

- Multiple Wavelengths
  - 1064nm
  - Dark Tattoos
  - 650nm
  - Green Tattoos
  - 585nm
  - Sky Blue or Purple Tattoos
  - 532nm
  - Red or Orange Tattoos

Cosmetic Tattoo

Jing-An Clinic, Shanghai, China
2 Treatments = 10 Months Post-Op

Cosmetic Tattoo

1 Treatment = 11 Months Post-Op

Tattoo Results

Lauren Chavez, M.D.
Tattoo Results

David J. Sire, M.D.
Multiple Treatments

Professional Tattoo - Multicolored. This tattoo received 11 treatments of a combination of 532 nm and 1064 nm.

Tattoo Results

Tattoo after multiple treatments.
Photos courtesy of Bruce Saal, M.D., Los Gatos, CA

After five 1064nm Treatments

Rox Anderson, M.D.
Suzanne Kilmer, M.D.
Professional Tattoo - Final Results
6 Treatment Sessions
One 532nm Treatment
Six 1064nm Treatments
Professional Tattoo - Red & black ink. 90% of clearing was obtained with one treatment at 532 nm, 5 J/cm². One additional treatment cleared the red. The black was cleared with 3 treatments at 1064 nm.

David H. McDaniel, M.D.

Multiple Treatments

Photos courtesy of Suzanne Kilmer, M.D.

No previous treatment

Very good results!

Amateur Tattoo

David H. McDaniel, M.D.

Clinical Insights: Tattoo Removal

Photos courtesy of Bruce Saal, MD
Before After 12 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

Before After 8 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

Before After 6 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

Before After 6 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN
Tattoo Removal

Before | After 4 treatments
---|---

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN
Tattoo Removal

Before After 3 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

Tattoo Removal

Before After 2 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

Tattoo Removal

Before After 2 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

Tattoo Removal

Before After 2 treatments

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN
**Tattoo Removal**

*Before*  

*After 1 treatment*

Photos courtesy of Michael H. Gold, M.D.,  
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

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**Selective Photothermolysis & Photo-Acoustic Effect**

- 755 nanometer emission is highly absorbed by melanin and dark tattoo particles
  
  - This wavelength penetrates from 1 to 4 millimeters through the skin
  - Nanosecond pulse duration shorter than the thermal relaxation times of the smallest targets
  - Pigmented Lesions affected not only by Selective Photothermolysis (heat) but also...
  - High peak power density and subsequent photo acoustic shockwave cavitates the smallest ink particles promoting phagocytosis
AlexTriVantage
The ONLY Q-Switched Alexandrite Laser with...

- Two Wavelengths Required for Tattoo Removal
  - Q-switched Alexandrite – 755 nm
    - Effectively removes black, blue, and green tattoos
    - Not effective in removing red tattoos
  - Q-switched YAG – 1064 and 532 nm
    - Effectively removes black, dark blue and red tattoos
    - Not effective in removing green tattoos

Conventional Approach for a 3-color Tattoo Removal Laser
- Two flashlamp pumped laser heads in chassis- adds cost and complexity
- Articulated arm- undesirable

AlexTriVantage Approach
Alexandrite pumped, passively Q-switched, frequency doubled YAG laser

- 1064 nm, 500 mJ
- 532 nm, 200 mJ
- 755 nm, 800 mJ
AlexTriVantage Advantages

- One Device
  - Treats All Tattoo Colors
  - Multiple Pigmented Lesions
- Kinder and Gentler
- Longer Fiber-Optic Beam Delivery
- New Compression Handpieces
- New User Interface
Tattoos: All colors including black, light and dark blue, light and dark green, reds and other colors.

- Epidermal Pigmented Lesions
  - Lentigines, age spots, Cafe au Lait and other benign pigmented lesions.
- Dermal Pigmented Lesions
  - Nevus of Ota.

Images Courtesy of Dr. Eric F. Bernstein, MD
Baseline Immediate Post Tx 6-8 wks Post Tx 4

Images Courtesy of Dr. Eric F. Bernstein, MD

Black Tattoos

Image courtesy of Dr. Gerald Goldberg

Black Tattoos

Image courtesy of Dr. Gerald Goldberg

Colored Tattoos

Image courtesy of Dr. Gerald Goldberg

532nm 1.5, 1.6 J/cm² spot size 3mm
755nm 5.5, 10 J/cm² spot size 3, 4mm
1064nm 5.5 J/cm² spot size 3mm
Hemosiderin Stains

Image courtesy of Dr. John Bottsford, MD

Lentigines

Before After

Image courtesy of Dr. Christine Dierickx, MD

Seborrheic Keratosis

Upper half: 755 QS, 3mm, 7J/cm²
Lower Half: 55nm microsecond, 4mm spot, 20.4J/cm²

Image courtesy of Dr. Nariaki Miyata
Alma Harmony XL - 11 Distinct Technologies
16 Hand Pieces

1. Pulsed UV - pigment restoration
2. Advanced Fluorescence Technology (AFT™) - vascular and pigmented lesions
3. LED - various skin conditions
4. SHR - in motion AFT for Painfree hair removal
5. Alex 755 - for hair removal and pigment
6. Near-Infrared - Scar revision & striae
7. Long-Pulse 1064 Nd:YAG - leg veins and hair removal
8. Q-Switched Nd:YAG - tattoo removal of all colors
9. Long-Pulse 1320 Nd:YAG - wrinkles and acne scars
10. 2940 Erbium-YAG - ablative skin resurfacing
11. Pixel 2940 Er:YAG - fractional ablative skin resurfacing

Alma - QS 1064 Nd:YAG

Photos Courtesy: Prof. Arie Orenstein, M.D., Sheba Medical Center, Tel-Aviv, Israel
Alma - QS 1064 Nd:YAG

Photos Courtesy: Fernando Urdiales Galvez, M.D.

Q-Switched YAG Laser

- Direct Delivery Handpiece
- Shorter Pulsewidth
- Wavelength Mixing Mechanism

PALOMAR Q-YAG 5™

- 1064 nm for dark tattoos
- Frequency doubled 532- reds
- Blended mode- other colors
- Due to special handpiece design, our Q-switched 1064 nm achieves short, 2.5 ns pulses
- Short pulse allows for strong, 180 MW, peak power
- Flat beam profile leaves a nice smooth surface

Palomar QYAG 5
New Direct Delivery Technology

Unique Direct Delivery Handpiece
• Laser Cavity with rod, flashlamp and KTP crystal in the Handpiece
• Eliminates articulated arm and launch optics
• Eliminates 20+ optics and/or mirrors

Shorter Pulsewidth
Higher Peak Power

• Pulsewidth reduced from 5-7 nanoseconds, as in other Q-switch Yags, to 2-3 nanoseconds
• Subsequent Peak power increased (more than doubled) for same fluence
• More effective on tattoo ink granules of multiple colors and pigmented lesions

Mixed Wavelengths

Unique Wavelength Mixing Mechanism
• Allows user to mix 532 nm and 1064 nm wavelengths
• User can treat multiple colors simultaneously
• User can treat epidermal and dermal lesions simultaneously

Palomar Q-YAG 5™ Laser System

• Laser Type: Nd:YAG with KTP Frequency Doubling
• Wavelength: 1064/532 nm (mixed); 1064 nm (single)
• Energy: Up to 12.5-13.5 J/cm²
• Pulsewidth: 3 +/- 1 ns
• Repetition Rate: Single shot, 1, 2, 5, & 10 Hz
• Spot Sizes: 2, 4, & 6 mm
• Beam: Direct Delivery
• Aiming Spot: Flashlamp
• Dimensions: 46 cm L x 48 cm H x 43 cm D
• Weight: ∼ 47 kgs. total weight (19+19+7+1.4 kgs.)
• Electrical Req.: 220-240/100-120; 50/60 Hz
**Female Patient**

Location: Arm

Q: YAG 5 Treatment Parameters:
- Fluence: Approx. 3.2 J/cm²
- Pulsewidth: 3 ns
- Spot Size: 4 mm
- Wavelength: 1064 nm

Photos courtesy of:
Paul Orton, M.D., LLC, Centennial, CO

**Male Patient**

Location: Arm

Treatment Parameters:
- Fluence: Approx. 3.2 J/cm²
- Pulsewidth: 2-3 ns
- Spot Size: 4 mm
- Wavelength: 1064 nm

Photos courtesy of:
Bruce M. Saal, M.D., Los Gatos, CA

**Q5 - Post 6 Treatments**

**Female Patient**

Location: Arm

Q: YAG 5 Treatment Parameters:
- Fluence: 2.35/3.35 J/cm²
- Pulsewidth: 2.3 ns
- Spot Size: 4 mm
- Wavelength: 1064 nm

Photos courtesy of:
Paul Orton, M.D., LLC, Centennial, CO
Pigmented Lesion Treatment

MALE PATIENT
Location: Leg

Q-YAG 5 Treatment Parameters:

- Fluence: 2.55 J/cm²
- Pulsewidth: 3 ns
- Spot Size: 4 mm
- Wavelength: 1064/532 nm

Photos courtesy of: Amir A. Bajoghli, M.D., Nantucket, MA

Pre-treatment

Four Months After 1st Treatment

SINON – Tattoo Removal
SINON can remove most colors

- The SINON 694 nm Ruby @ 20 ns is the best choice for:

<table>
<thead>
<tr>
<th>Color</th>
<th>Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Excellent</td>
</tr>
<tr>
<td>Blue</td>
<td>Excellent</td>
</tr>
<tr>
<td>Green</td>
<td>Excellent</td>
</tr>
<tr>
<td>Magenta</td>
<td>Very good</td>
</tr>
<tr>
<td>Grey</td>
<td>Good</td>
</tr>
<tr>
<td>Brown</td>
<td>Good</td>
</tr>
<tr>
<td>Red</td>
<td>Fading effect, often dark inks also present</td>
</tr>
<tr>
<td>Yellow</td>
<td>Variable/ sometimes good</td>
</tr>
<tr>
<td>Orange</td>
<td>Variable/ sometimes good</td>
</tr>
<tr>
<td>White/Skin color</td>
<td>No effect</td>
</tr>
</tbody>
</table>

SINON: Active Q-
Switched for Pigments and Tattoos

SINON Q-switched Ruby Laser System

Photographs: Courtesy of Prof. Dr. Landthaler, University of Regensburg, Germany
Before treatment After 4 treatments

Photographs: Courtesy of Dr. Bernstein, USA

Before treatment After 2 treatments

Photographs: Courtesy of Prof. Dr. Landthaler, University of Regensburg, Germany

Before treatment After 3 treatments

Photographs: Courtesy of Prof. Dr. Landthaler, University of Regensburg, Germany

R20 Tattoo Removal Method
R20 Tattoo Removal

- R20 involves performing 3-4 laser treatments in one session. The result of the R20 method is 50-85% clearing in a single session without additional side effects.
- Laser Tattoo removal treatments form tiny vapor bubbles in the skin (frosting) that looks like fine white powder. Ordinarily, this frost refracts the laser beam preventing it from penetrating the skin. After 15-20 minutes the frost disappears making it possible to do another treatment or “pass”. The R20 Tattoo Removal method simply waits for this to happen and lets us treat clients 3-4 times in one visit.
R20 Method Tattoo Removal

9 Months After R20
4/7/2012

Photos courtesy of Michael H. Gold, M.D.,
The Laser and Rejuvenation Center of Gold Skin Care Center, Nashville, TN

R20 Tattoo Removal

• Combining three to four laser tattoo removal treatments during one office visit lets the laser reach deeper than with a traditional single-pass treatment. One R20 treatment would be sufficient to completely remove an amateur black tattoo or for lightening a tattoo for a new one. For professionally applied black tattoos, however, about 50-75% fading will occur. This is significantly more fading than expected from 3-4 conventional treatments. Using the R20 method will cut the total time for removal by half or more.

Optimal tattoo removal - Kossida, T. et. al.
JAAD 2012

• 755nm wavelength
• 750 picosecond pulse duration
• Zoom & fixed handpieces
• Typical treatment fluence (tattoo): 3J/cm²

PicoSure
Picosecond Laser

Fig. Shows process immediately after first and forth PicoSure treatment. C. The illustration also shows MCO. DR. They break apart, creating microscopic vibrations that cause the tattoo to dissipate. Continued...
Picosecond Laser for Tattoos

**Observation**
Successful and Rapid Treatment of Blue and Green Tattoo Pigment With A Novel Picosecond Laser
Jenny A. Bosey, MD; Marchita V. Reddy, MD, FRCPC; Jennifer Andrews, MD; Tiber E. Yilmaz, MD; John D. Evans, MD; Elizabeth R. Silva, MD; Roger A. Bingham, MD; Gordon A. Hermann, MD; Eric C. Geronemus, MD

**Background:** With the increased use and demand for tattoo removal, there are many methods available to remove tattoo pigments. Most of these methods are based on the characteristics of the laser used. The Picosecond Laser (PicoSure) is a new method that uses an ultra-short pulse duration to break down tattoo pigments into tiny particles that can be removed by the body's immune system.

**Conclusion:** The Picosecond Laser's ultra-short pulse duration takes advantage of photomechanical impact, which allows for the removal of tattoo pigments with minimal damage to surrounding skin.

**Observations:** The Picosecond Laser was used successfully in a small, prospective, single-blind trial. Patients received four treatments with a total fluence of 1500j/cm2. Patients showed excellent clearance with no adverse events.

**Pulse Duration**
PICOSURE: 750 ps
Q-Switched Nd:YAG: 5 ns = 5000 ps
Q-Switched Alex: 50 ns = 50,000 ps

**Why it matters:**
- The shorter picosecond pulse duration takes advantage of photomechanical impact, allowing for the removal of tattoo pigments without heat damage.
- Half the fluence is required compared to Q-Switched nanosecond lasers.
- Fewer treatments with significantly better clearance, including stubborn greens & blues.
- Previously treated, hard-to-clear recalcitrant tattoos.

How does a Picosecond Pulse Compare?

<table>
<thead>
<tr>
<th>Pulse Duration</th>
<th>PICOSURE</th>
<th>Q-Switched Nd:YAG</th>
<th>Q-Switched Alex</th>
</tr>
</thead>
<tbody>
<tr>
<td>750 ps</td>
<td></td>
<td>5 ns = 5000 ps</td>
<td>50 ns = 50,000 ps</td>
</tr>
<tr>
<td>PicoSure pulse is 7x shorter</td>
<td></td>
<td>PicoSure pulse is 70x shorter</td>
<td></td>
</tr>
</tbody>
</table>

**Picosecond Laser Technology**

- Completely new energy source — goes beyond photothermal action.
- PicoSure's ultra-short pulse duration takes advantage of intense photomechanical impact (PressureWave™) to shatter the target into tiny particles easily eliminated by the body.

**RESULT:**
Better clearance with fewer treatments and less fluence, without injury to the surrounding skin.

**The Picosecond Difference**

- Stress mediated tattoo clearing mechanisms not possible with nanosecond pulses are enabled.
- Effective treatments are achieved with one half to one third the fluence needed in nanosecond treatments.
- Better clearance is achieved with fewer treatments compared to nanosecond pulses.

**Why it matters:**
- The shorter picosecond pulse duration takes advantage of photomechanical impact instead of heat to shatter ink into the smallest of particles.
- Half the fluence is required compared to Q-Switched nanosecond lasers.
- Fewer treatments with significantly better clearance, including stubborn greens & blues.
- Previously treated, hard-to-clear recalcitrant tattoos.

**1** Treatment of Tattoos With a Picosecond Alexandrite Laser: A Prospective Trial, Nazanin Saedi, MD; Andrei Metelitsa, MD, FRCPC; Kathleen M. Petrell, BS; Kenneth A. Arndt, MD; Jeffrey S. Dover, MD, FRCPC. *Arch Dermatol.* Published online September 17, 2012. doi:10.1001/archdermatol.2012.2894


**• Removal of Tattoos by Q-Switched Laser, Pier Luca Bencini, MD; Simona Cazzanigo, PhD; Athanasia Tourlaki, MD; Michela Gianna Galimberti, MD; Luigi Naldi, MD.** *Arch Dermatol.* Published online September 17, 2012. doi:10.1001/archdermatol.2012.2946
Laser Response

Electron Microscopy Photos
Courtesy: H. R. Jalian, M.D.

Untreated Tissue/Ink
Q-Switched laser
Picosure laser
“Rocks”
“Pebbles”
“Sand”

Picosecond vs. Nanosecond

Nanosecond
Picosure
Baseline
1 Month Post 3 Tx

PicoSure Results

Before
After 4 Treatments

Courtesy: J. Dover, M.D., FRCPC & K. Arndt, M.D.

Picosure Results

Baseline
Immediately after
Post 24 hours
Post 2 Weeks

3.5mm spot, 2.08 J/cm²

Courtesy: Emil Tanghetti, M.D.
PicoSure Results

Before After 3 Treatments

Before After 3 Treatments

Before After 3 Tx

Baseline After 20+ Tx with Q-Switched Nd:YAG 3 Month Post Tx 6 with PicoSure

Courtesy of Roy Geronemus, MD Laser & Skin Surgery Center of NY

Courtesy of J. Dover, MD FRCPC, & K. Arndt, MD
Tattoo Market - Conclusions

- 25 million people in the US have a tattoo
- 250,000 women are being tattooed each year
- 50% of people who have a tattoo look to have them removed/augmented
- average age of procuring a tattoo is 18 years
  - often leaving the tattoo as a permanent reminder of their poor decision to put it on
  - Treating tattoos – pearl I tell all patients – it costs more money to remove them and hurts more to remove them than putting them on!

Thank You

- Contact me:
  - drpozner@sancuarymedical.com
  - www.sanctuarymedical.com
  - 561-367-9101