

The 2011 Global Congress on Travel Risk Management

August 25-28, 2011


Screening Practices for People & Baggage – Contraband Detection

Presented By:



Dennis Wolfe – Virtual Imaging


Rafi Ron – New Age Security Solutions

Stephen Heifetz – Steptoe & Johnson LLP





Screening Practices for People & Baggage- Contraband Detection

Dennis Wolfe


- North American Security Sales Manager & South American Business Manager for Virtual Imaging-a Canon USA Company.
- Degrees in Radiology, Radioisotopes, Health Physics, Business & Marketing
- Didactically, Clinically and Commercially involved in radiology since 1972.
- Currently involved with whole body contraband detection technology .





Rafi Ron




- President of New Age Security Solutions.
- Former Director of Security at Tel Aviv Ben-Gurion International Airport and the Israel Airport Authority and is currently
- World-leading security expert on aviation, maritime and law enforcement with more than 30 years of Israeli and worldwide security-related experience





Stephen Heifetz



- Partner in the Washington office of Steptoe & Johnson LLP
- has served in the Departments of Justice and Homeland Security, as well as the Central Intelligence Agency
- In private practice, he has represented clients in matters involving many other federal agencies, Congress, foreign governments, and international organizations.






Cargo Screening




Data needed for risk-based screening

- “Risk-based screening” for maritime cargo has been practical and effective.
- Risk-based screening now being tried for air cargo.
- So-called “100%” requirements have been impractical and resource-draining.






Passenger Screening



Data and secure identification needed to answer these questions:

- Who is traveling to US?
- Is named traveler a threat?
- Is named traveler the same as the actual traveler?

Trusted Cargo/Traveler Programs



Voluntarily supplied information can further facilitate resource allocation

- Customs-Trade Partnership Against Terrorism (and mutual recognition agreements)
- Global Entry
- Domestic Trusted Traveler
- Visa Waiver Program

Does the Risk Outweigh the Risk?



There are at least two absolutes in security imaging that you can count on!

There is always going to be a contraband problem! (It is just a matter of degree and what it is).

Only Transmission Imaging has the ability to image contraband internally & externally.



Baggage Imaging Technology

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Metal Detectors

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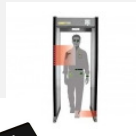


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Walk Thru Metal Detectors

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Most Common WB Imaging Technologies

- Backscatter Scanning
- Millimeter Wave Scanning
- Transmission Scanning

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(requested items to be imaged on TSA
Solicitation Number HST04-08-R-CT2056)

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- ✓ Casts
- ✓ Body Cavities
- ✓ Prosthetics
- ✓ Shoes
- ✓ Headwear
- ✓ Back Braces

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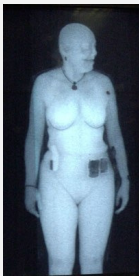
Male Privacy Comparison of Security Imaging Technologies



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Female Privacy Comparison of Security Imaging Technologies



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Places of Concern



1. Jails & Prisons
2. Courthouses
3. Airports-Seaports-Railways
4. Customs-Immigration
5. Embassies
6. Military Facilities
7. Precious Stone Mining Companies
8. Any Type of High Security Facility

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Why do Whole Body Security Scanning?



- ✓ Narcotics
- ✓ Illegal currency
- ✓ Plastic & Liquid Explosives
- ✓ Metallic & Non-Metallic Weapons (guns, knives, etc.)
- ✓ Components of Blasting Assemblies (electronic detonators, wires, etc.)
- ✓ Precious Stone Contraband (gems, gold, etc.)
- ✓ Chemical & Biological Materials
- ✓ Any Prohibited Objects (needles, nails, scissors, etc.)

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Male Privacy Comparison of Security Imaging Technologies



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Female Privacy Comparison of Security Imaging Technologies





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“You do not need to be afraid of radiation, but you do need to understand & respect it!”



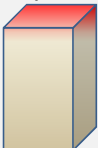
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Radiation Dose Comparison




100 uSv
(1 chest X-ray exam)







0.01 uSv
(average natural background/24 hr)


2.7-27 uSv/24 hr







0.25 uSv







0.05 uSv





0.01 uSv



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Medical Imaging Comparison

2,000 scans


≈

1 chest x-ray

2,000,000 scans

≈

1 whole body spiral CT Scan

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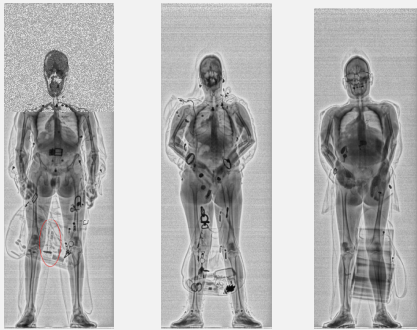
Adapted from Pochin, E. E. Lauristan Taylor Lecture Series in Radiation Protection and Measurement, Lecture 2, 1978. NCRP Publication, Cohen, E. L.: A catalog of risks, Health Physics Vol. 36, 1979, p. 707-723.

Medical Imaging Comparison



ATL to FLL flight	5 uSv	100	Transmission Scans
Coast to Coast flight	30 uSv	600	Transmission Scans
Dental Exam	100 uSv	2000	Transmission Scans
Mammogram	700 uSv	14,000	Transmission Scans
PET Scan-Brain	1,000 uSv	100,000	Transmission Scans
CT-Head	2,000 uSv	40,000	Transmission Scans

Transmission Imaging



Does the Risk Outweigh the Risk?



Thank You!



I trust that you
learned something
today.