

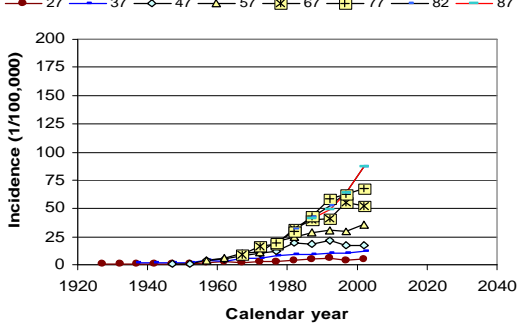
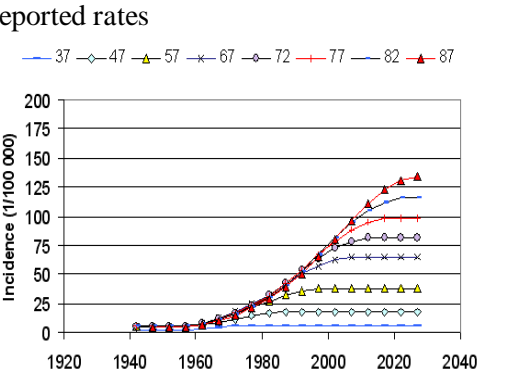
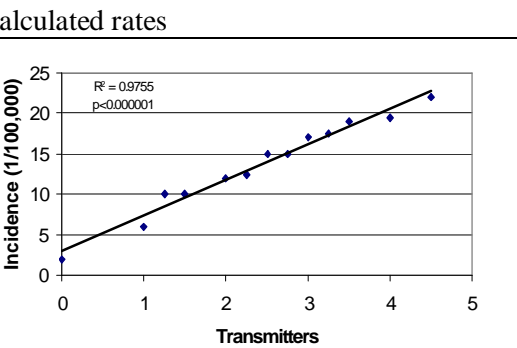


Facts and Fiction about Skin Melanoma

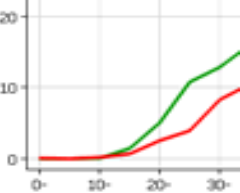
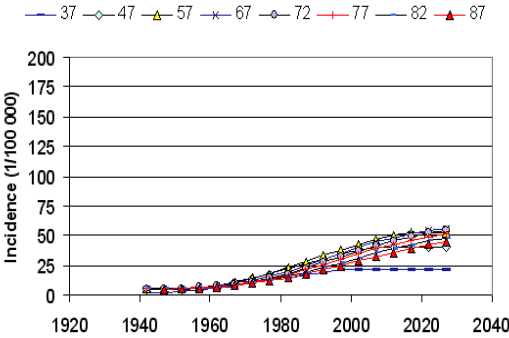
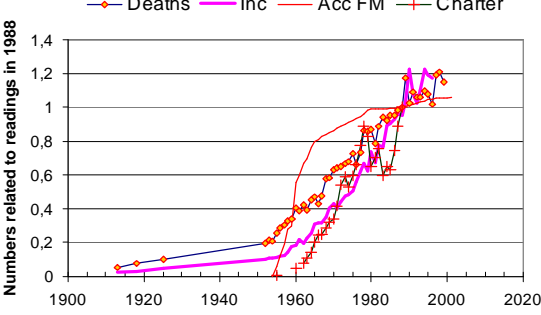
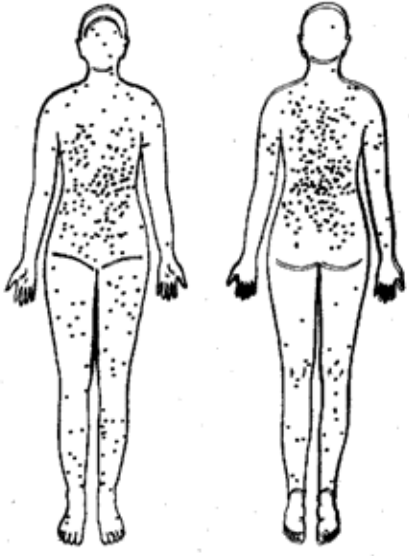
Örjan Hallberg, Hallberg Independent Research, 2009

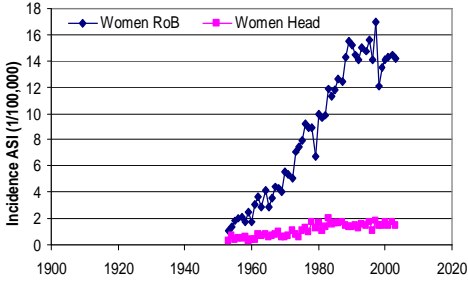
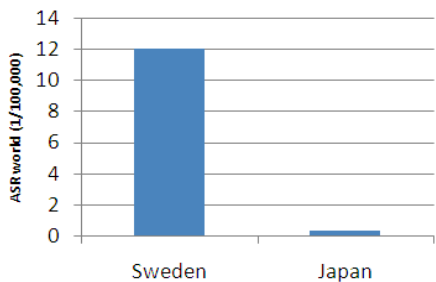

Fiction	Facts	Ref
Melanoma rates are increasing since sun induced skin damages today occur more often than the natural repair capability of the body can cope with	Melanoma rates are increasing as a result of a weakened skin repair efficiency due to constant night-long immune disturbance from body-resonant FM broadcasting transmitters	1
Melanoma rates correlate with UV-index	This is not true for Europe where melanoma is less frequent in southern countries. In Sweden and Norway there is a correlation but not in Denmark. In France there is an inverse correlation. However, the correlation between melanoma incidence and the local density of surrounding FM broadcasting transmitters is extremely strong in all investigated countries.	2
In coastal areas the UV-index is doubled which explains the higher melanoma incidence noticed e.g. in Australia, Finland, Connecticut etc	The total UV-radiation from the sun does not increase just because of closeness to water. FM broadcasting transmitters are not placed out on the sea surface but along the coast. Buildings are normally facing towards the sea view so the probability of having a bed placed in the direction of the electric field is quite strong in coastal areas.	3
Artificial sun tanning gives increasing melanoma rates among young people	Young age-groups have had stable incidence rates since several decades back. It is only the oldest population that still shows a fast increasing melanoma incidence.	1
Small children almost never get melanoma due to long time of latency	The melanoma starts to increase abruptly from puberty age, girls one year before boys, when they reach resonant adult body lengths and also more frequently sleep on expensive metal based steel spring mattresses.	4
Increasing sun tanning habits can explain increasing melanoma rates	Increasing sun tanning habits <u>cannot</u> explain reported age-specific melanoma rates	5
Melanoma rates started to increase after the introduction of sun charter travels	Melanoma death rates abruptly started to increase about 7 years <u>before</u> the first sun-charter travels took place in Sweden.	6
Australia has high melanoma rates due to weak ozone layer protection	The melanoma rates in Australia started to increase around 20 years before the ozone depletion first was noticed (and 50 years before the Nobel prize...)	--
Mainly the sun exposed areas of the body suffer from melanoma	Head and feet regions have shown fairly stable rates since 1955 while rates of sun-protected areas in the middle of the body have increased by a factor of 20	7, 8
Young people show increasing risks for melanoma	People younger than 57 years show <u>stable</u> age-specific rates over time	1
Developed countries can afford sun travels and will thus get more melanoma	Japan is a developed country where the melanoma rate is only 3 % (30 times less!) of that in Sweden and where wave reflecting metal spring beds are not being used.	9

<p>90% of all melanoma is due to UV exposure http://sgll.nu/PDF/SSMSoS Cancerfonden.pdf</p>	<p>The melanoma rate per unit skin area is the same for both sun exposed and non-exposed areas</p>	<p>10</p>
---	--	-----------

References

Nr	Reference	Graph
1	<p>Hallberg Ö. A reduced repair efficiency can explain increasing melanoma rates. <i>European Journal of Cancer Prevention</i>. 2008; 17: 147-152.</p>	<p>Graph</p>  <p>Reported rates</p>  <p>Calculated rates</p> 
2.	<p>Hallberg Ö, Johansson O. FM broadcasting exposure time and malignant melanoma incidence. <i>Electromagnetic Biology and Medicine</i> (2005); 24: 1-8.</p>	<p>Inc. vs. transmitters</p> 
3.	<p>Hallberg Ö. Det stora misstaget. (The big mistake, a summary of what happened since 1955 when it was too late to stop the roll-out of the FM broadcasting towers in Sweden)</p>	

<p>4.</p>	<p>Hallberg Ö, Johansson O. Melanoma incidence and frequency modulation (FM) broadcasting. Arch Environ Health (2002); 57: 32-40</p>	<p>The worst place in Sweden regarding melanoma</p> 
<p>5.</p>	<p>Hallberg Ö. A reduced repair efficiency can explain increasing melanoma rates. <i>European Journal of Cancer Prevention</i>. 2008; 17: 147-152.</p>	<p>Incidence starts to increase after puberty</p>  <p>A model based on increasing sun tanning did not fit age-specific data.</p>
<p>6.</p>	<p>Hallberg Ö. And Johansson O. Malignant Melanoma of Skin – Not a Sunshine Story!, <i>Med Sci Monit</i>, (2004); 10(7): CR336-340</p>	 <p>Charter travels started slowly 7 years <u>after</u> the mortality trend-break!</p>
<p>7.</p>	<p>Hallberg Ö, Johansson O. Cancer trends during the 20th century. ACNEM Journal (2002); 21(1): 3-8.</p>	 <p>Melanoma is most often found on sun protected parts of the body.</p>

<p>8.</p>	<p>Hallberg Ö. The Melanoma Epidemic. BIT Life Sciences' 1st Annual World Cancer Congress 2008, Shanghai, China. Proc p 141.</p>	 <p>Melanoma incidence on non-exposed areas have increased almost 20 times since 1955.</p>
<p>9.</p>	<p>http://www-dep.iarc.fr/</p>	 <p>The melanoma rate in Japan is about 30 times less than in Sweden.</p>  <p>And metal beds generating standing waves are not as common in Japan as in Sweden.</p>
<p>10.</p>	<p>Boel Ragnarsson-Olding. Extracutaneous Melanomas in Sun Shielded Body Sites. <i>Proceedings of Bit Life Sciences 2nd Annual World Cancer Congress 2009</i>, Beijing; p133</p>	<p>Abstract: http://sgll.nu/PDF/Boel.pdf</p>