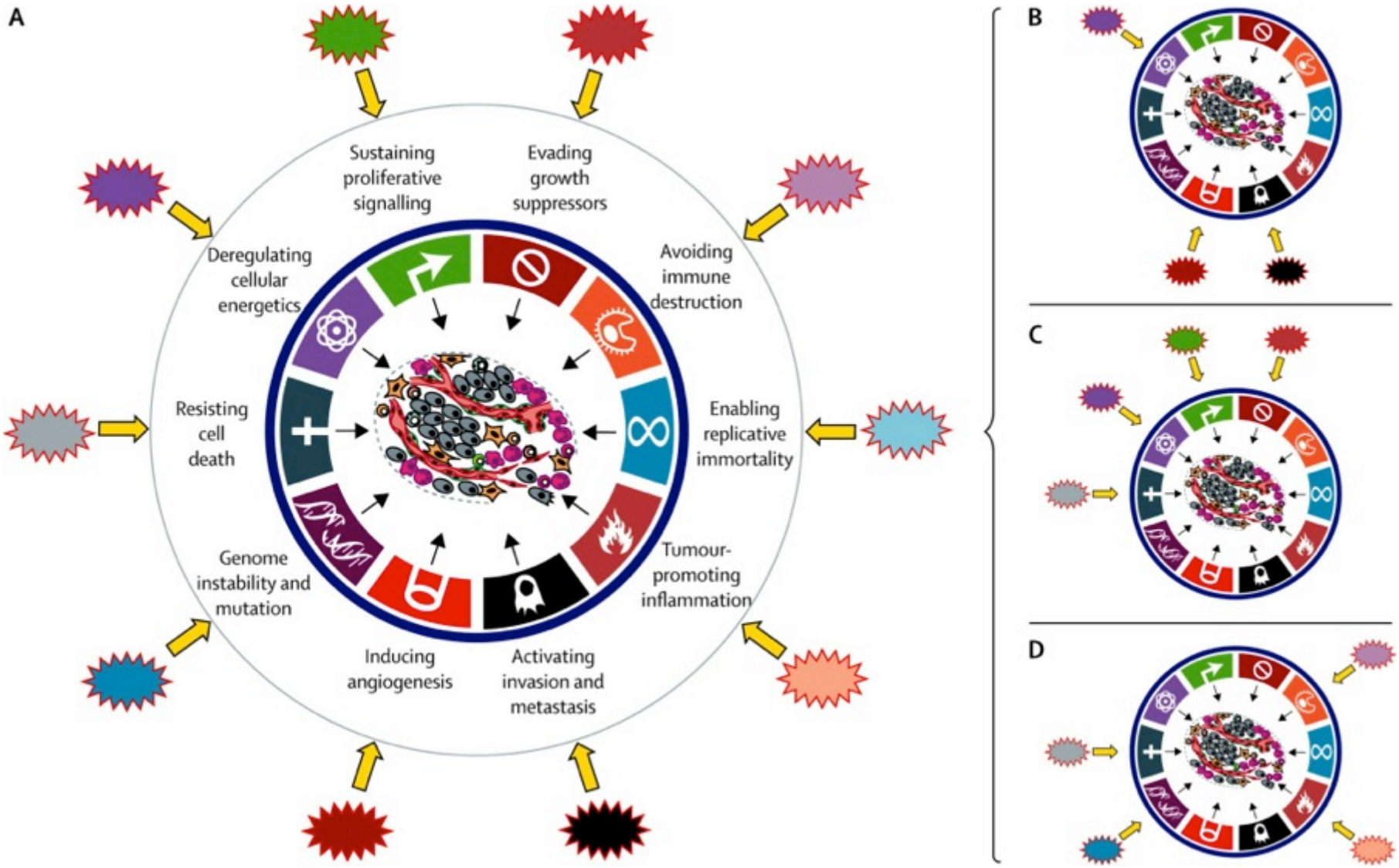
Metals and breast health

Sydney August 2014

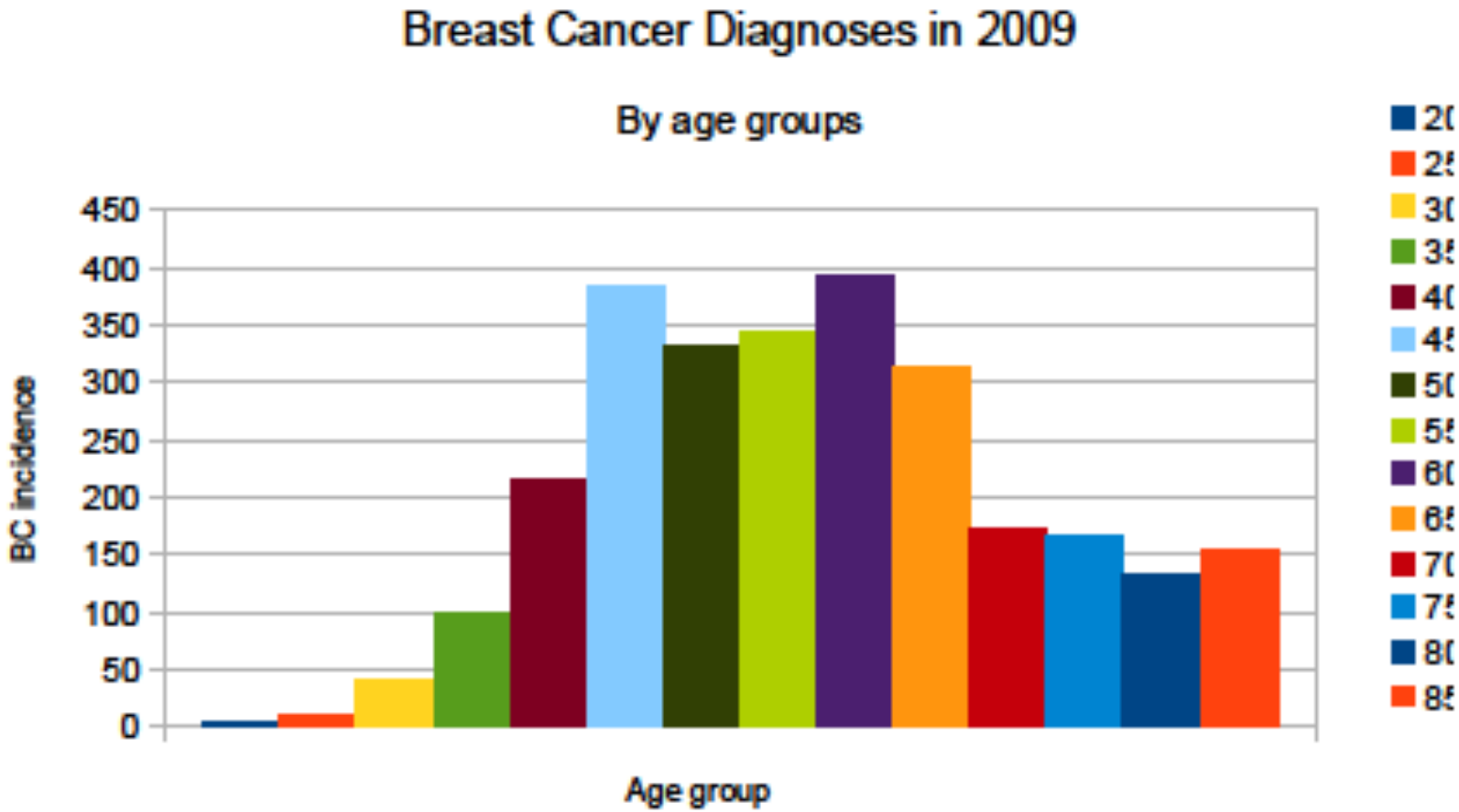
Mike Godfrey



Hanahan D. Rethinking the war on cancer. The Lancet Feb 2014Vol.383, Issue 9916, Pages 558-563.

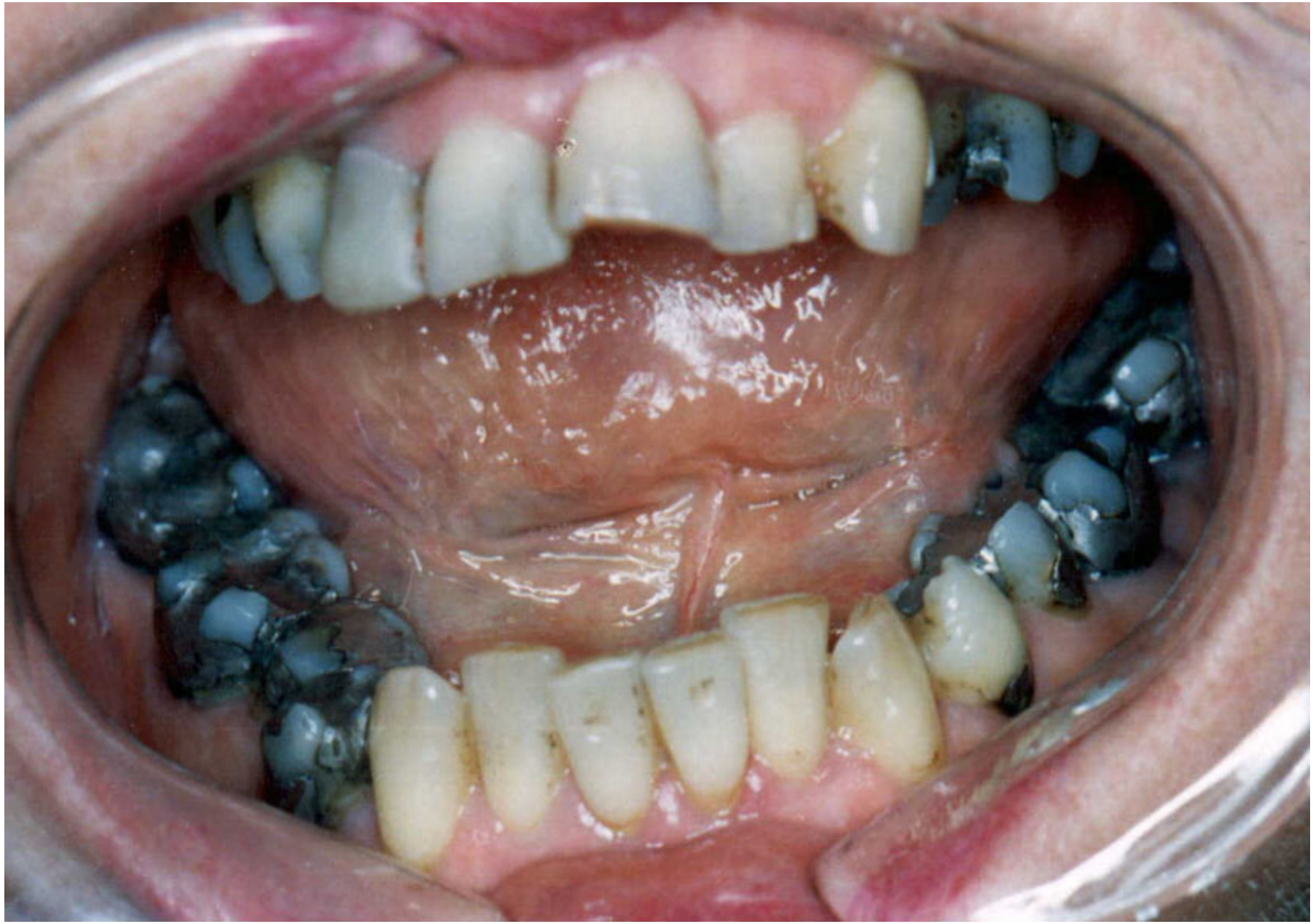
Year: **2009**

Female Breast	20-	25-	30-	35-	40-	45-	50-	55-	60-	65-	70-	75-	80-	85+
Total:	2	10	39	100	216	384	332	344	392	313	171	165	132	154



- Josef Issels, the highly regarded 20th century German oncologist, reportedly treated over 12,000 patients of which 1/3 were deemed “terminal” with an unequalled success rate. According to Issels over 97% of these patients had major causal factors in teeth, jaws and tonsils. Patients were routinely treated in the dental department.

- “*It is a waste of time expecting a good outcome if the teeth are not included. I will not treat patients if they do not agree to this*.” Prof. Wolfgang Köstler MD, Vienna.
  (personal communication 1995)



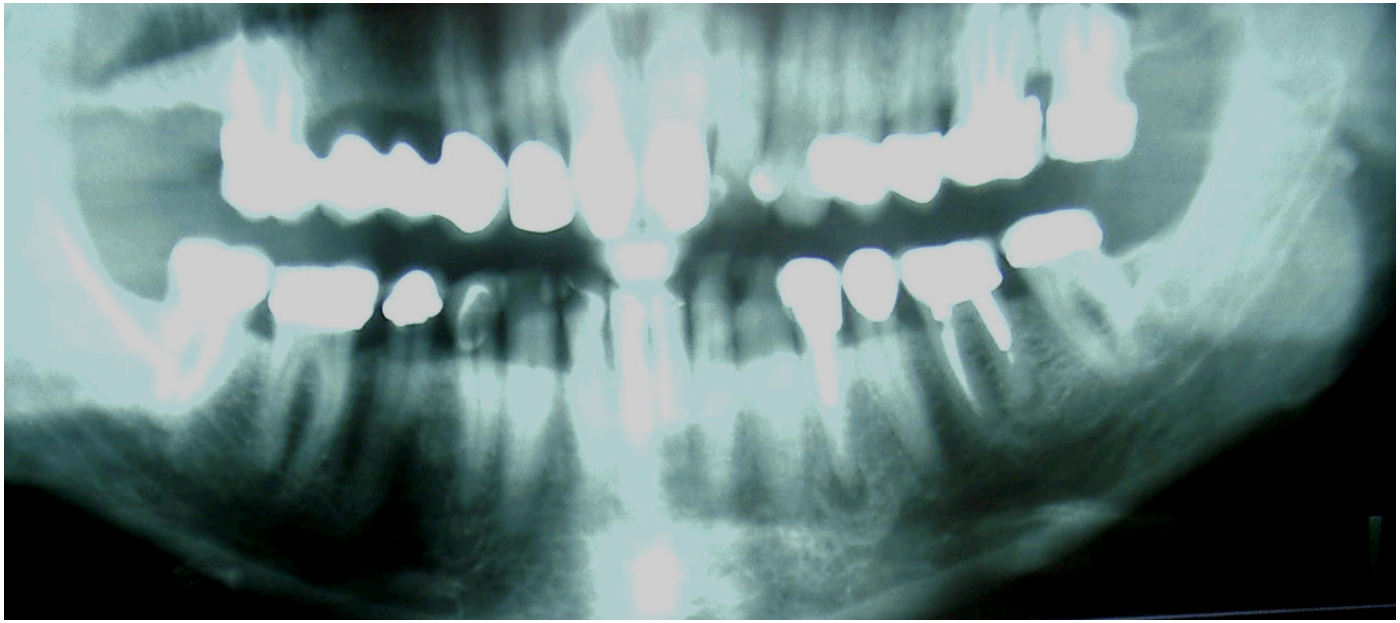


Fig. 21

A.T. 53 yr old with breast cancer
6 r/f teeth 4 on Br. Acup mer), amalgams crowns and bridge

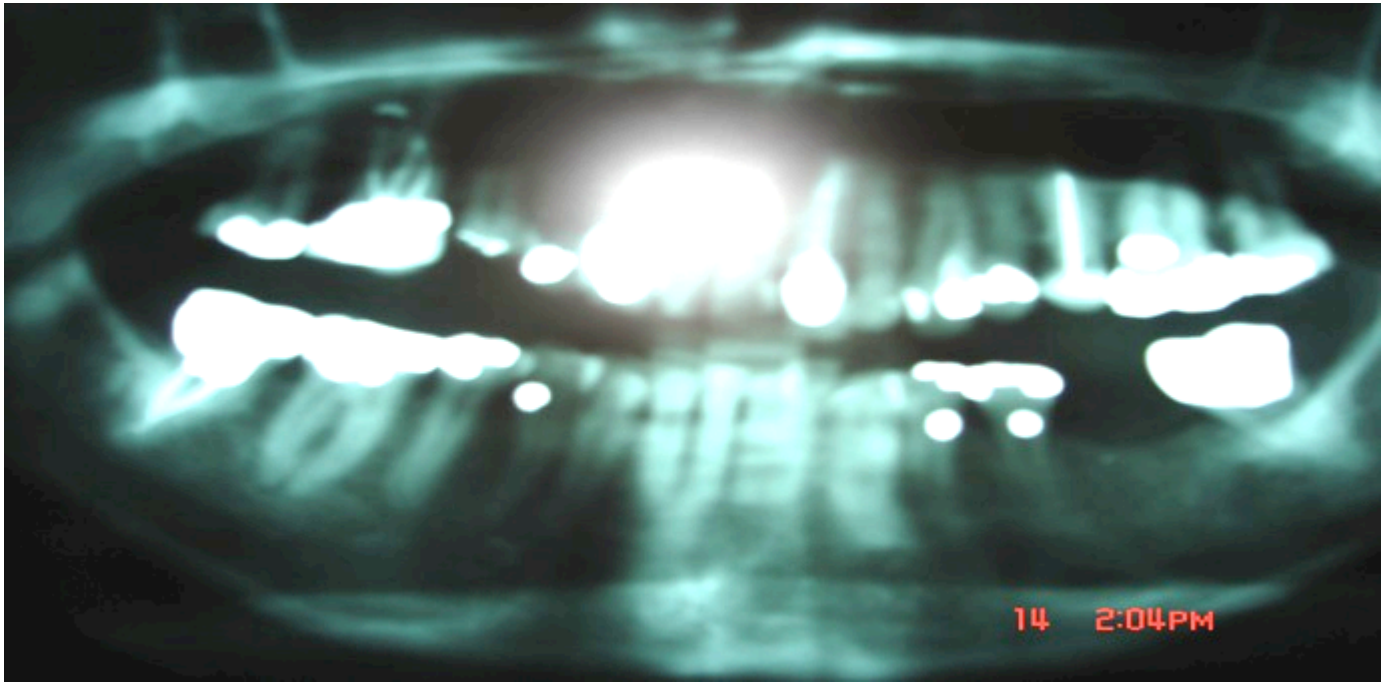
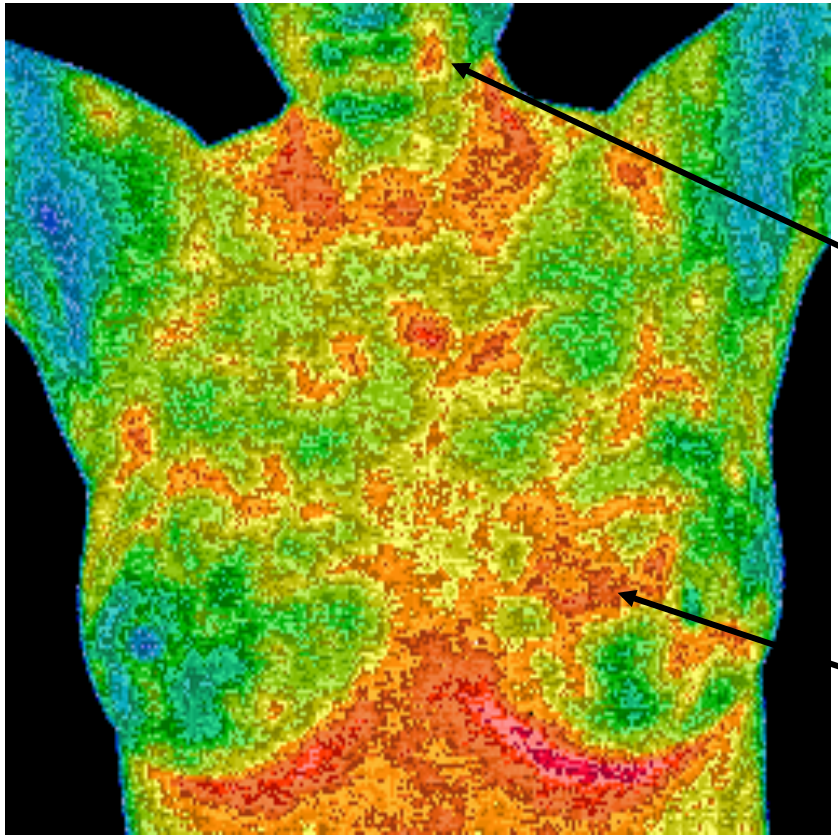


Fig 22

Patient with right breast cancer
4 r/f teeth
13 amalgams with crowns

Breast cancer and dental focus



Focal hyperthermia “hot spot” at decaying root-filled tooth on breast acupuncture meridian.

Breast cancer

Metals discovered in 20 breast cancers compared with 8 benign breast lesions.

Nickel and Chromium ($p<0.00005$)

Zinc ($p<0.00001$)

Iron ($p<0.0001$)

Mercury and Cadmium ($p<0.005$)

Ionescu, Novotny, Stejskal et al. NEL 27(2006)(Suppl.1):36-39

Note:

Metals extensively and uncritically used in dental restorations.

OCCULT MECHANISMS FOR MERCURY TOXICITY

Hg has strong affinity for sulfhydryl, phosphoryl and carboxyl gps, resulting in **significantly impaired cellular metabolism.**

Lorscheider et al. 1995, Clarkson 1997.

Hg binds to and depletes Se reserves adversely affecting all Se-dependent enzymes, Selenocysteine and Se proteins including iodine transporter and glutathione peroxidase.

BLOOD – **Hapten** formation -> immuno-modulation,

↓ **lymphocyte viability**,

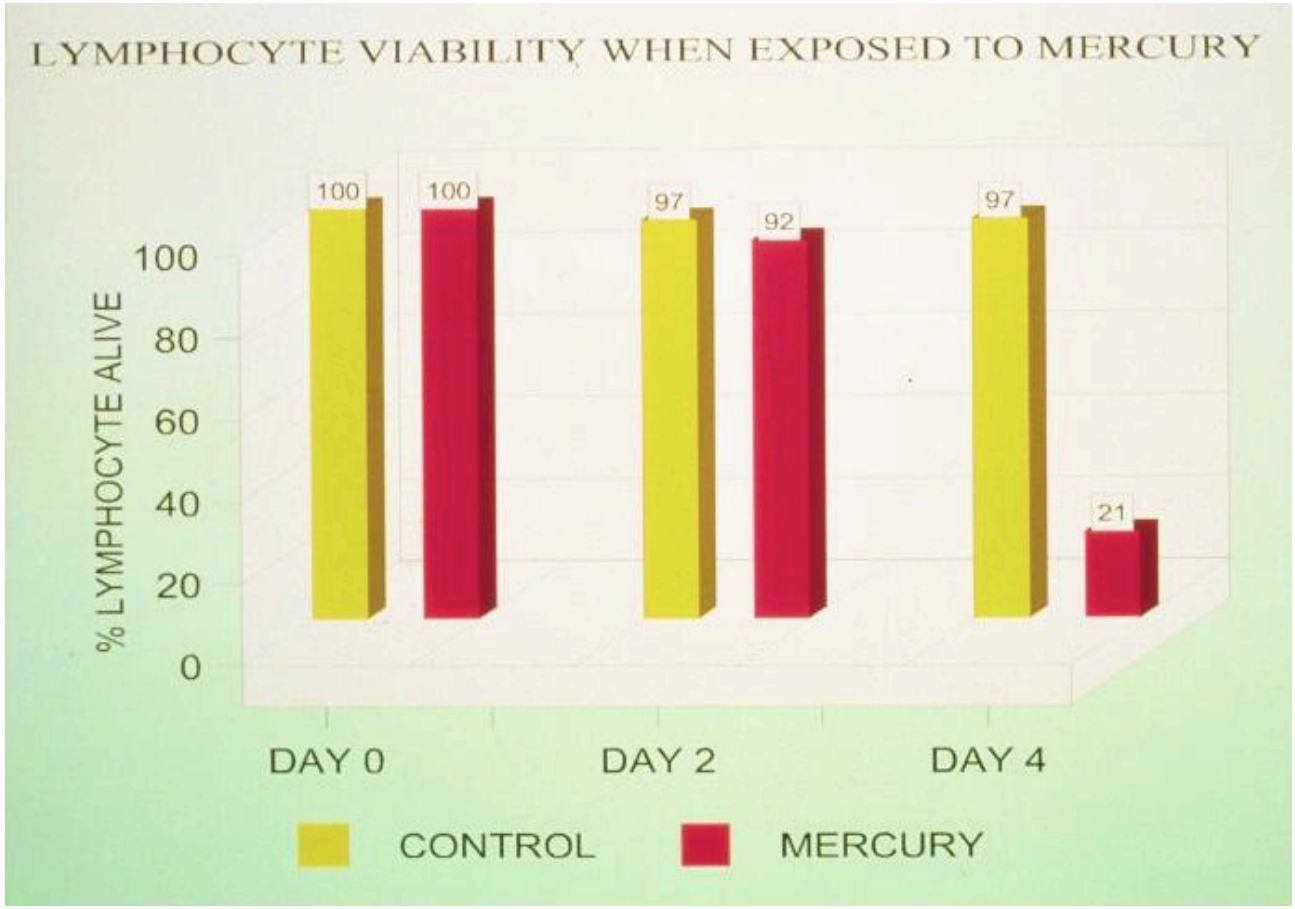
The White Blood Cell Reference Range
" Widening the Goal-posts"

1950	5,000	– 9,000	(Bell's Physiology)
2000	4,000	– 11,000	
2010	2,800	– 12,500	(USA)

Could this be an adaptation to an environmental toxin rendering wbc non-viable ***in vivo***? The reference range found in **healthy** amalgam-free patients is 5,000 – 6,300 (post- amalgam removal)

(H.Huggins – personal communication)

Lymphocyte culture viability (%) with mercury exposure



Huggins HA. Medical implications of dental mercury: A review.
Explore 2007;vol.3 (2): 110-117

NK viability and cancer.

12 year follow-up of 77 women comparing NK ability to react to their cultured breast cancer cells

47% mortality (non-reactive) vs. 5% mortality (reactive).

Head J, Wang R et al.Ann. NY Acad. Sci.1993;690:340-2

Immunological and psychosocial predictors of disease recurrence in early-stage breast cancer.
(Less active lymphocytes the higher the mortality)

Levy S et al. Behavioural Medicine 1991;17(2):67-75

Natural cytotoxicity activity in peripheral lymphocytes and cancer incidence: An 11 year follow-up.
(Less active lymphocytes the higher the mortality)

Imai K et al. Lancet 2000;356(9244):1794-99

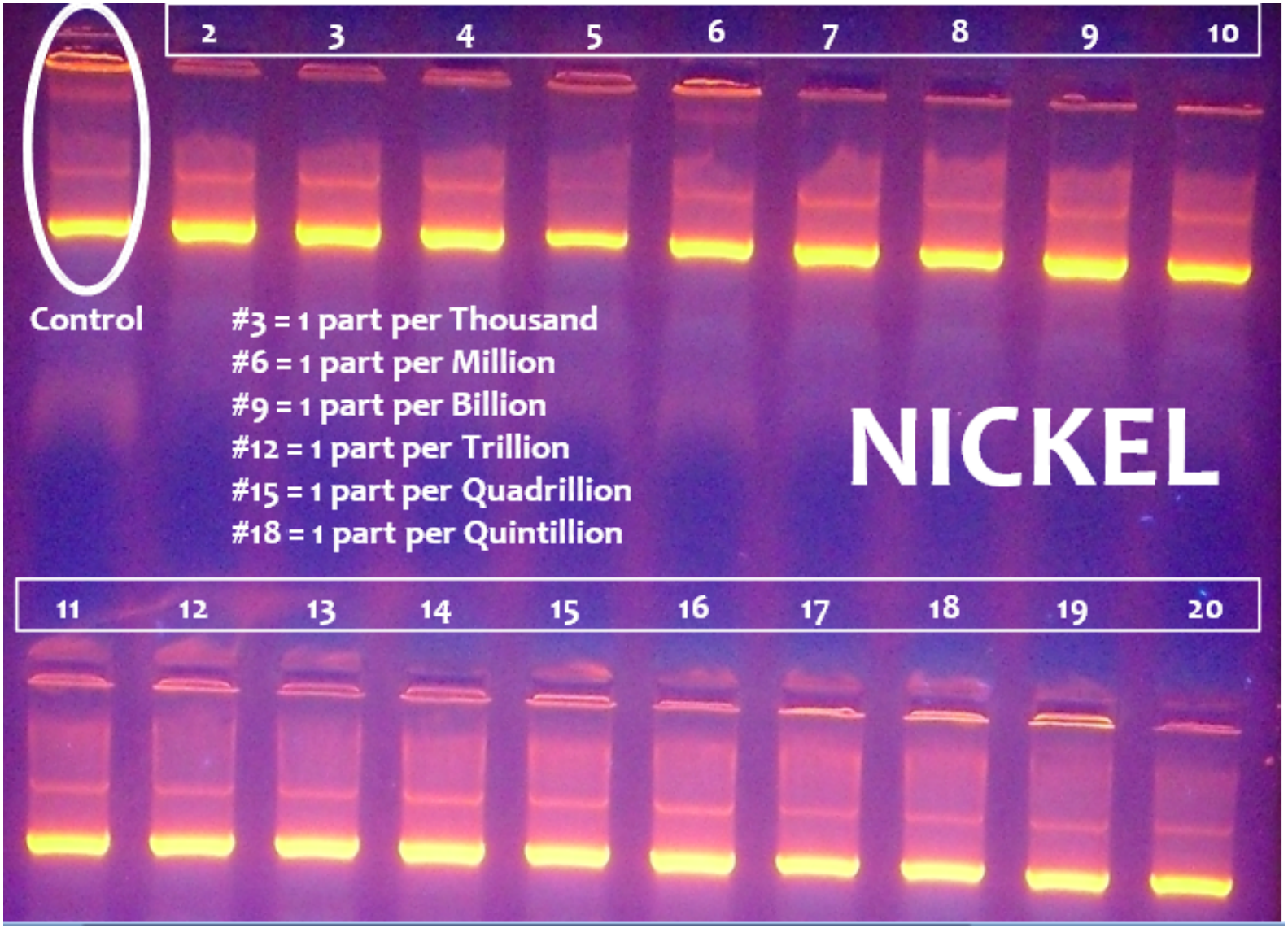
Metals, bacterial toxins and cancer

Devitalised teeth cannot be sterilised.
56 different anaerobic bacteria identified by DNA.

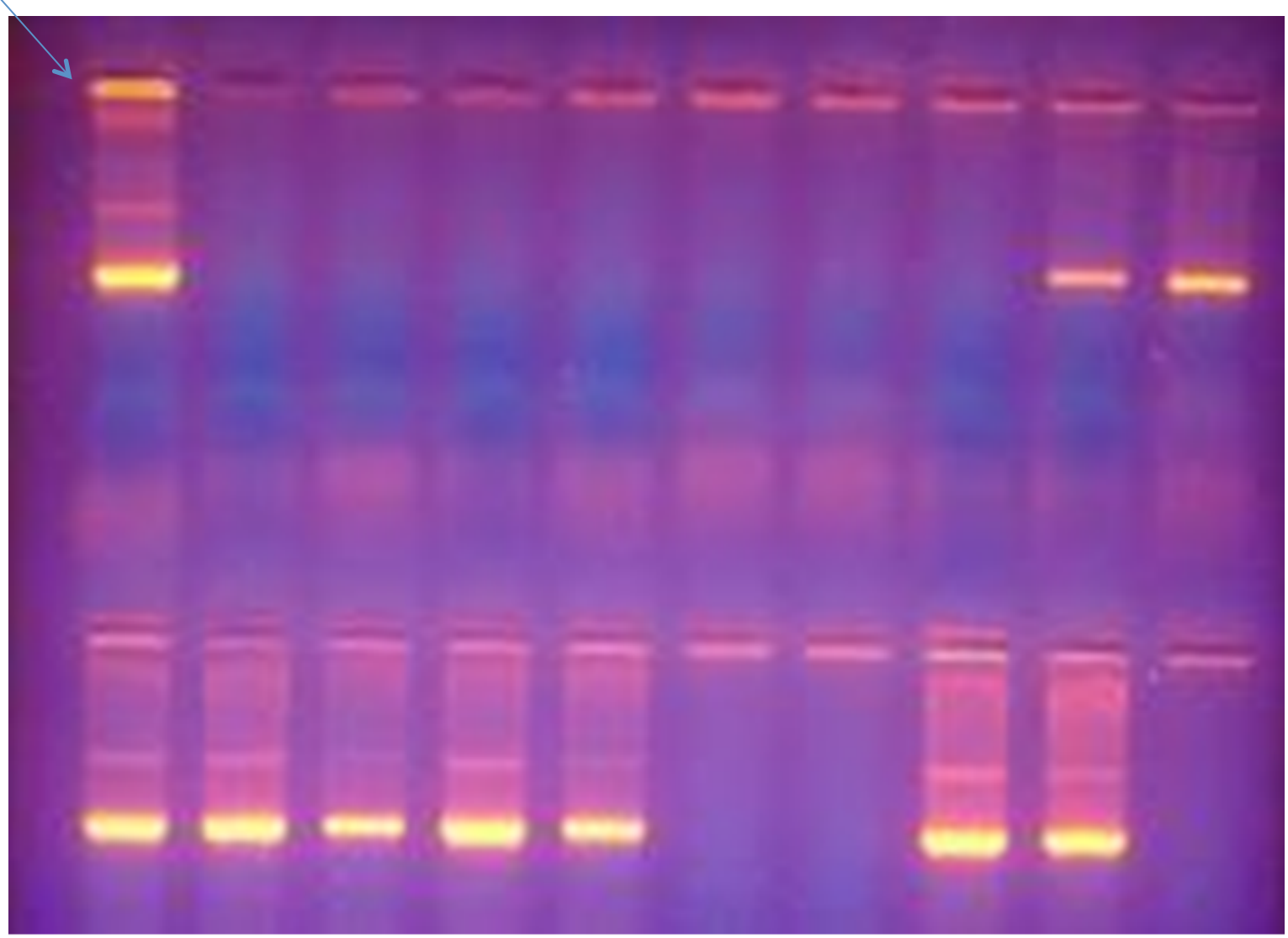
Out the 10 commonest bacteria present in root-canals:

Hafnia alvei (associated with breast cancer) produces propyl-amino-peptidase (PAP) toxin when exposed to Hg, Ni. Al and Cu.

Nickel and PAP



Aluminium and PAP



Porcelain crowns on metal base

- Porcelain contains aluminium oxide
- Non-precious metal alloy bases variously contain iron, nickel, chromium, cobalt all of which have been associated with free-radical generation and/or cancer
- Gold alloys contain numerous metals that have been associated with immuno-modulation and/or cancer.
- Gold will significantly enhance electrolytic corrosion of all other intra-oral metals.
- It is inadvisable to place amalgam with other metals in the mouth. (Health Canada 1996 and NZDA 1996)

Which country has the lowest incidence of cancer per capita?

Howe G.M. International variations in cancer incidence and mortality. Howe G.M. (editor). Global geocancerology: A world geography of human cancers.1986. Edinburgh: Churchill Livingstone, pp. 3-42

Which country has the lowest incidence of cancer per capita?

Senegal

Howe G.M. International variations in cancer incidence and mortality. Howe G.M. (editor). Global geocancerology: A world geography of human cancers.1986. Edinburgh: Churchill Livingstone, pp. 3-42

Selenium supplementation improves survival in breast (and prostate) cancer

Int J Cancer. 2013 Nov;133(9):2054-64. doi: 10.1002/ijc.28224. Epub 2013 Jul 6. Dietary selenium supplementation modifies breast tumor growth and metastasis. Chen YC[1], Prabhu KS, Das A, Mastro AM.

Iodine deficiency

- Iodine deficiency increases risk of: breast, endometrial, ovarian and prostate cancer

  (Stadel Lancet 1976)

- Breast dysplasia and atypia

  (Eskin Bio. Tr. Elem, Res, vol 49,1995)

- Breast lipoperoxidation

  (Aceves C. Mamm.Gland Biol and Neoplasia vol.10(2) 2005

Iodine deficiency is very common in Australia, such that it has been determined that **salt iodisation is now not considered to be an effective strategy** to correct iodine deficiencies in Australia.

Iodine is an essential element required for normal breast tissue growth and development. Multiple studies reveal its great potential for use in the prevention, diagnosis and treatment of breast cancer.

Evaluation of iodine levels in the Riverena poulation. Uren LJ, McKenzie G, Moriarty H. s.l. : Aust J Rural Health, 2008;16(2):109-14.

Iodine and mammary dysplasia. BA, Eskin. s.l. : Adv Exp Med Biol. 1977;91:293-304.

Iodine alters gene expression in the MCF-7 breast cancer cell line: evidence for an anti-oestrogenic effect of iodine. Stoddard FR 2nd, Brooks AD, Eskin BA et al. s.l. : Int J Med Sci 2008;5(4):189-96.

In: An Integrative Approach to Breast Cancer

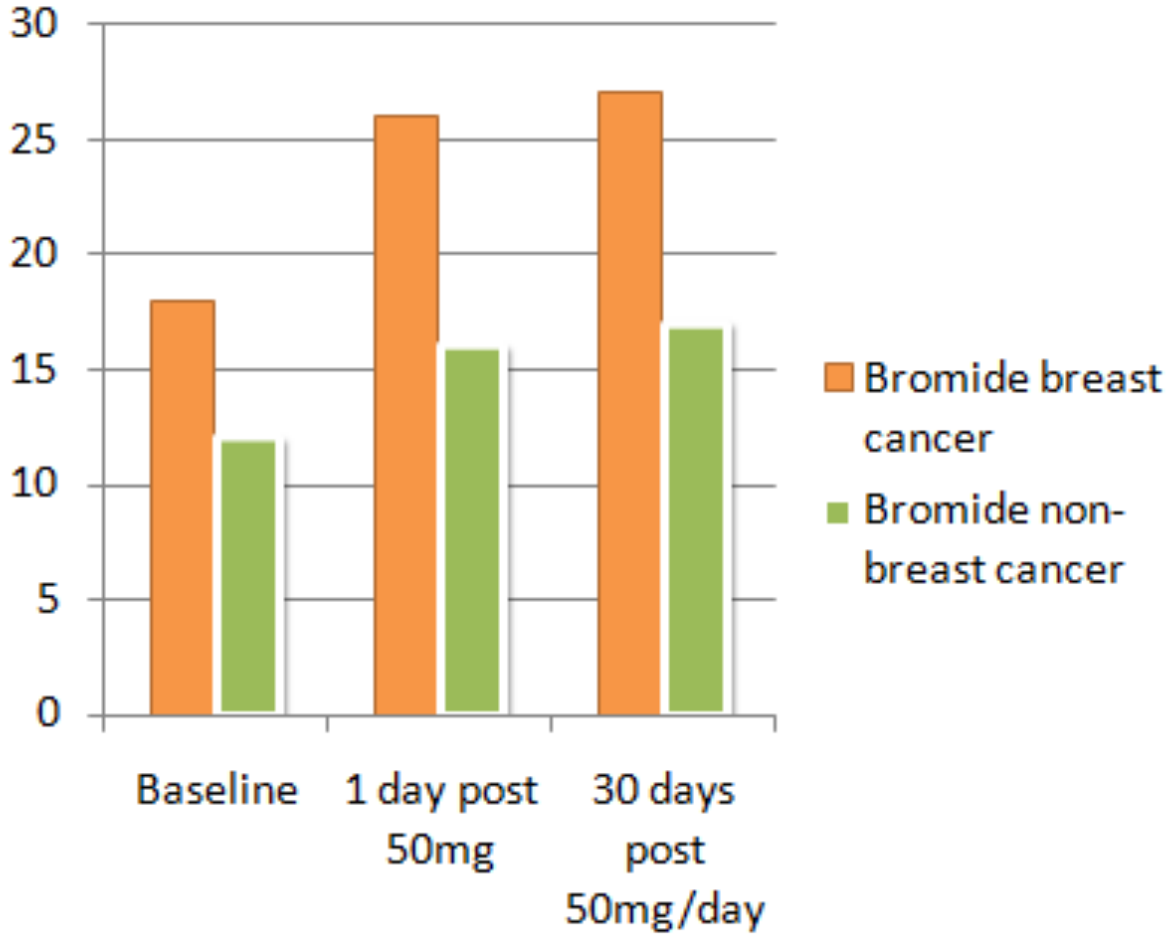
Dr. Lily Tomas McGrath Foundation 2009

Causes of Iodine deficiency

- Lack of iodine in soils
- RDA for iodine established to prevent goitre but inadequate for rest of body
- Iodine in salt (77µg/gm) only 10% bio-available (due to chlorine competitive uptake)

  (Pitman NEJM 1969;280:1431-34)
- Iodine replacement with bromine in baking
- Uptake competition from other environment halides – fluorine, chlorine, bromine, perchlorate.
- Vegetarian and vegan diets

Iodine loading, bromide excretion (mg/24 hours) in 8 breast cancer and 10 non-breast cancer subjects



David Brownstein MD with permission

Iodine deficient breast tissues are more susceptible to carcinogen action and promote lesions earlier and in greater profusion. Treatment with iodine can reverse this dysplasia in animal models.
Furthermore, molecular iodine has clear anti-proliferative and apoptotic effects in the human breast cancer cell line, MCF-7.

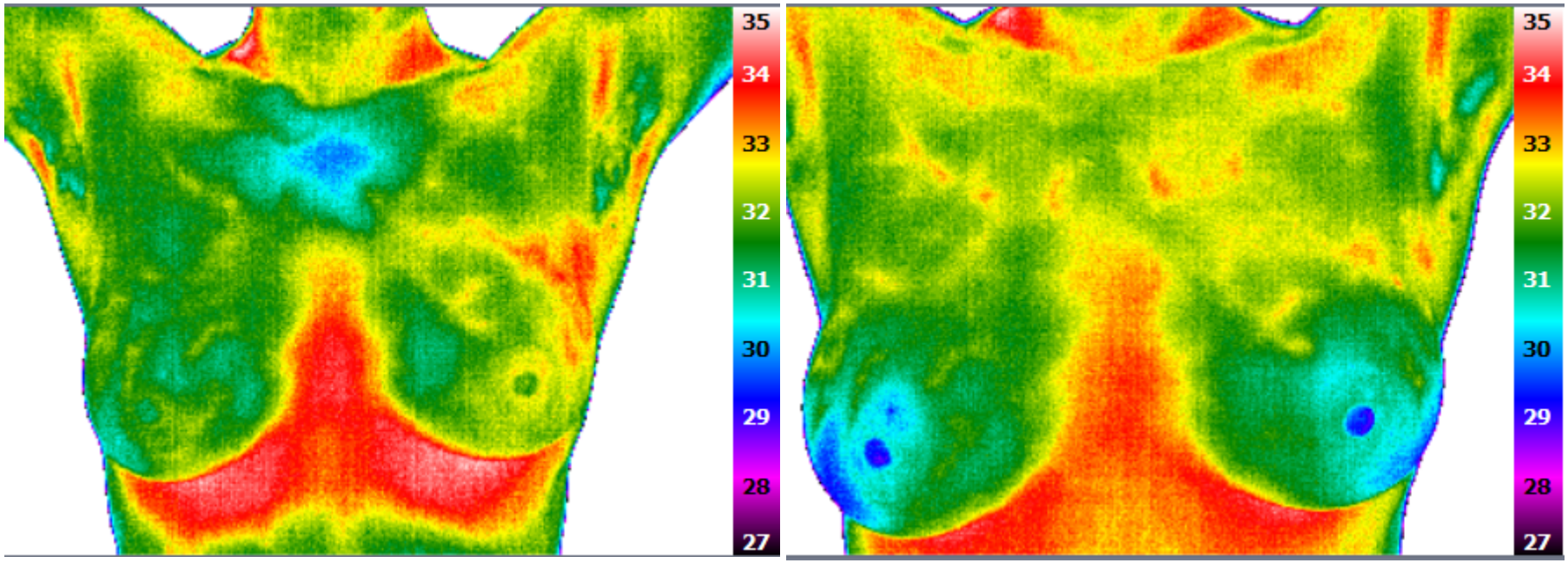
Iodine and mammary dysplasia. BA, Eskin. s.l. : Adv Exp Med Biol. 1977;91:293-304.
Different tissue responses for iodine and iodide in rat thyroid and mammary glands. Eskin BA et al. s.l. : Biol Trace Elem Res 1995;49:9-19.
Effect of iodide-deficency on rat mammary gland.., Strum. JM. Virchows ArchB Cell Pathol Inc Mol Pathol. 1979;30:209-220.
Uptake and gene expression with antitumoural doses of iodine in thyroid and mammary gland: evidence that chronic administration has no harmful effects. Anguiano B, et al. Thyroid 2007;17(9):851-9.

Evidence suggests that iodine may inhibit cancer promotion through modulation of the oestrogen pathway partially through its direct interactions with breast cancer cells.

This suggests that iodine/iodide may be useful as an adjuvant therapy in the pharmacologic manipulation of the oestrogen pathway in women with breast cancer.

The mammary gland iodide transporter is expressed during lactation and in breast cancer. Tazebay, UH, Wapnir IL, Levy O et al. s.l. : Nat Med. 2000;6:871-878.

Iodine alters gene expression in the MCF-7 breast cancer cell line: evidence for an anti-oestrogenic effect of iodine. Stoddard FR 2nd, Brooks AD, Eskin BA et al. s.l. : Int J Med Sci 2008;5(4):189-96.

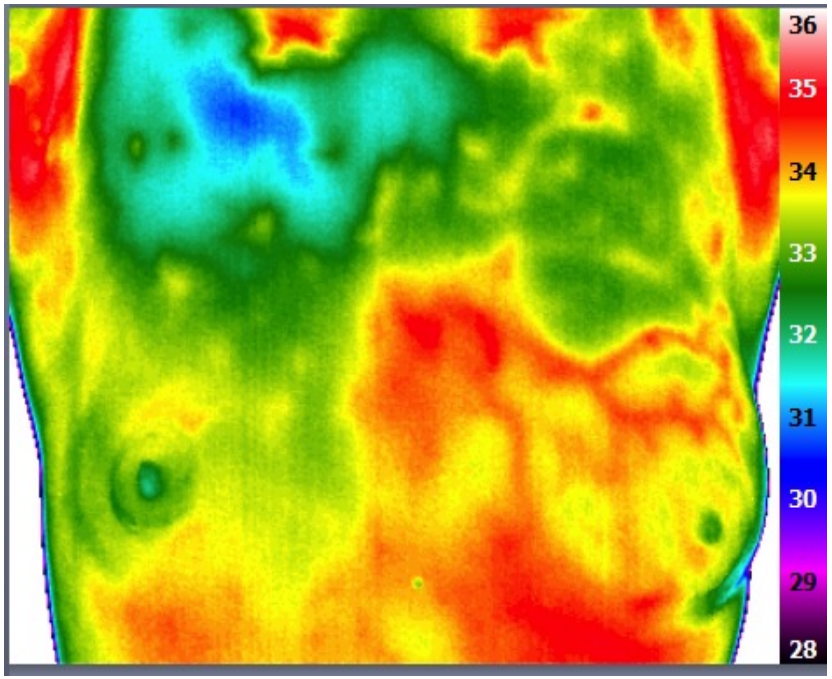


May 2011 November 2011

49 year old peri-menopausal mother with long-standing painful FBD especially left upper outer quadrant.

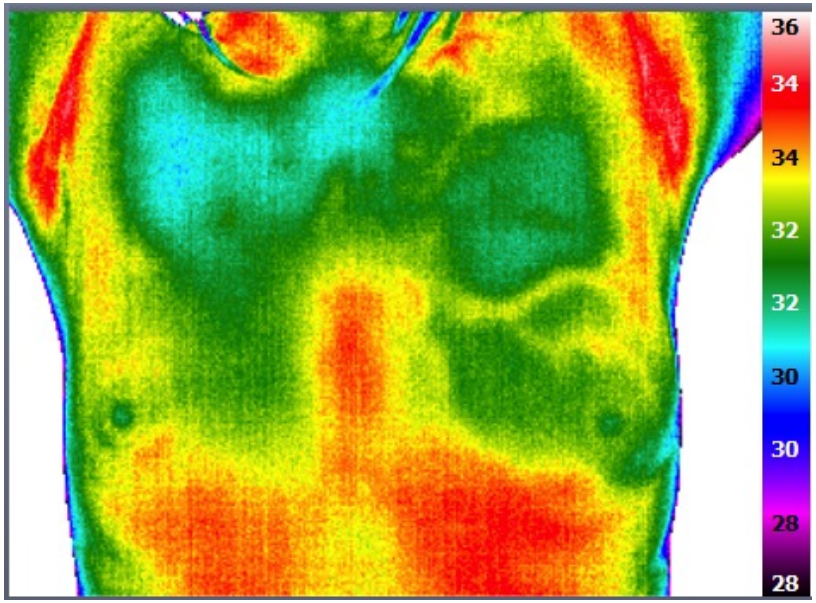
Supplementation with Lugol's iodine 2 drops p.o. daily plus local application (and selenium 200mcg).

Result – rapidly pain-free and breasts softened.



March 2013
21 yr old on o/c from age 16

Stopped o/c and started iodine, selenium, vit C and D



March 2014