



GRAND ROUNDS CALL

With Dr. Nalini Chilkov April 15, 2020

5:30 PM Pacific / 6:30 PM Mountain / 7:30 PM Central / 8:30 PM Eastern

Agenda

- Clinical Pearl
 - COVID 19 and Cancer ImmunoNutrition for our Most Vulnerable Patients
- Case Study
 - 71 y/o F Breast cancer Multi-foci invasive mucinous carcinoma
 - 21 y/o M Hodgkin's Lymphoma Stage II

• Clinical Question:

- There have been rumors circulating about Elderberry and its use perpetuating or igniting a cytokine storm in individuals under the weather or sick with viral symptoms (even Covid). What is your take on this?
- What are the most powerful herbs/supplements to support innate immunity?
- What are your thoughts on Stephen Buhner's Coronavirus Tinctures protocol?
- What are your thoughts on elevated M Protein tumor markers for multiple myeloma patients with no physical symptoms?
- We want to reduce iron intake in cancer but we still tell patients to eat lots of leafy greens, is there a good study you can refer us to, to explain why heme-iron is contraindicated but non-heme iron foods are ok?
- When a cancer cell metastasises enters a lymph node, it uses fat as fuel, What do we do with the diet of someone with metastatic cancer?

Clinical Pearl: COVID 19 and Cancer - ImmunoNutrition for our Most Vulnerable Patients

Caring for Our Most Vulnerable Patients (see PDF file of Powerpoint slides)

Link to Slides -

https://aiiore-members-only.s3-us-west-1.amazonaws.com/Grand+Rounds/2020+04+15+Clinical+Pear I+Slides+-+COVID+19+and+Cancer+Patients.pdf

Case Study: 71 y/o F Breast cancer - Multi-foci invasive mucinous carcinoma

Submitted by: Judy Pruzinsky, L.Ac.

Link to Case Study:

https://aiiore-members-only.s3-us-west-1.amazonaws.com/Grand+Rounds/2020+04+15+CASE+STUD Y+-+71+yo+F+Breast+cancer+-+Multi-foci+invasive+mucinous+carcinoma.pdf

Case Study: 21 y/o M Hodgkin's Lymphoma Stage II

Submitted by: Susie Thomson, DipION; NTEC; mBANT; CNHC:

Link to Case Study:

https://aiiore-members-only.s3-us-west-1.amazonaws.com/Grand+Rounds/2020+04+15+CASE+STUD Y+-+21+y%3Ao+M+Hodgkin's+Lymphoma+Stage+II.pdf

Questions & Answers

Jaclyn Tolentino D.O

- 1. Elderberry and cytokine storm there have been rumors circulating about its use perpetuating or igniting a cytokine storm in individuals under the weather or sick with viral symptoms (even Covid). What is your take on this?
- 2. What are the most powerful supplements/herbs to support innate immunity can you outline the top 5?
- 3. What are your thoughts on Stephen Buhner's Coronavirus Tinctures protocol?

<u>Dr. Chilkov:</u>

Elderberry and cytokine storm - there have been rumors circulating about its use perpetuating or igniting a cytokine storm in individuals under the weather or sick with viral symptoms (even Covid). What is your take on this?

- Overall we must be CAREFUL of botanicals and phytochemicals that UPREGULATE cytokines as this virus hijacks the immune system and creates a cytokine storm. In my opinion there are MANY OTHER OPTIONS for antivirals (see Clinical Pearl Covid 19 and Cancer).
- I would NOT use Elderberry as a single herb. If it happens to be in a balanced formula, it would not be contraindicated.
- There are MANY more choices of herbs that are much more powerful. This internet scare was based on ONE PAPER published in 2001.
- What are the most powerful supplements/herbs to support innate immunity can you outline the top 5?
 - Please see the COVID 19 and CANCER Clinical Pearl.
 - Remember....we want our patients to be ROBUST and have STRONG IMMUNE FUNCTION long before they are exposed to pathogens...BUT with this virus we must discontinue strong immune

tonics upon exposure to the virus to avoid a cytokine storm.

What are your thoughts on Stephen Buhner's Coronavirus Tinctures protocol?

- I glanced at this but did not read his 9 page paper. I do not know this clinician.
- I am most inclined to use formulas that have shown to be effective with Covid 19 patients in China. Many of these herbs ARE in his protocols AND readily available formulas that I included in the Covid-19 and Cancer Clinical Pearl.
- Chinese Herb formulas have an intelligence to their compositions which makes them very
 effective.You may wish to listen to Michael McCulloch, OMD DPH. He has 2 webinars on MAYWAY
 Herbs website on the most recent information coming out of China. Additionally Peter D Adamo has a
 blog with the results of his information gathering and analysis. His site is datapunk.com.There is A
 LOT of information and we are all just learning about this virus. No one is an expert yet.

Questions & Answers

Jennifer Jeanty, DNP, APN-C

• What are your thoughts on elevated M Protein tumor markers for multiple myeloma patients with no physical symptoms. She is feeling great but her markers are slightly elevating.

Dr. Chilkov:

What are your thoughts on elevated M Protein tumor markers for multiple myeloma patients with no physical symptoms. She is feeling great but her markers are slightly elevating.

- It is not normal to have M proteins in the blood. This is a sign of disease activity. The oncologist-hematologist may not want to treat in early stages.... but we can certainly intervene with an OUTSMART CANCER plan to manage the cancer terrain and to push back on progression.
- Consider Vitamin A (retinoic acid), Vitamin D3 (cholecalciferol)
- Check for Hypercoagulation This is most often an adverse effect of treatment with Revlimid in these patients, but can be present in any cancer. If present: increase Omega 3 Fatty Acids, Curcumin, and add Dan Shen (Chinese Red Sage Root, Salvia milthiorrhiza)
- Support bone health. MM can invade the bones: DFH Osteoben is a good choice
- There are good Chinese Herbal Formulas used in this type of cancer that can exert control over progression
- Below is an example of herbs that are commonly used:
 - ≻ Magnolia
 - ≻ Rabdosia
 - > Licorice Root
 - ➢ Green Tea (when not on Velcade)
 - ≻ Astragalus
 - ≻ Ganoderma
 - ≻ Chaga
 - > Cordyceps
 - ➢ Scutellaria baicalensis
 - ≻ Ashwaganda
 - ➢ Milk Thistle

- ≻ Ginger
- > Schisandra
- > Lycium
- > Tang Kuei
- ≻ Gotu Kola
- The large proteins in the blood can damage nephrons. Consider protecting the health of the kidneys: **Nettle Seed extract** (Urtica dioica leaf) or add it to a custom herbal tonic. Taking it separately assures a higher daily dose.

Questions & Answers

Susie Thomson, DipION; NTEC; mBANT; CNHC:

• We want to reduce iron intake in cancer but we still tell patients to eat lots of leafy greens, is there a good study or two that Dr Nalini can refer us to to explain why heme-iron is contraindicated but non-heme iron foods are ok?

Dr. Chilkov:

We want to reduce iron intake in cancer but we still tell patients to eat lots of leafy greens, is there a good study or two that Dr Nalini can refer us to to explain why heme-iron is contraindicated but non-heme iron foods are ok?

- Iron metabolism is NOT my area of expertise. Typically the amount of non heme iron in leafy greens is small and does not negatively impact the cancer terrain, whereas animal sourced heme iron (as is in our bodies as well) and an oral iron supplement can increase serum levels readily.
- There is some non heme iron in animal foods as well. Heme iron is found in higher amounts on our foods. Iron is a pro-oxidant and will damage tissue and DNA. Heme Iron is linked to increased oxidative stress, cardiovascular disease, cancer and diabetes.Non-Heme iron is not.
- A pub med search on HEME-IRON and OXIDATIVE STRESS yields over 100 references. Here are the first four
 - <u>Caveats for the Good and Bad of Dietary Red Meat.</u> Omaye AT, Omaye ST. Antioxidants (Basel). 2019 Nov 12;8(11). pii: E544. doi: 10.3390/antiox8110544. Review. PMID: 31726758
 Free PMC Article
 - Diet, iron biomarkers and oxidative stress in a representative sample of Mediterranean population. Romeu M, Aranda N, Giralt M, Ribot B, Nogues MR, Arija V. Nutr J. 2013 Jul 16;12:102. doi: 10.1186/1475-2891-12-102. PMID: 23866833 Free PMC Article
 - Heme of consumed red meat can act as a catalyst of oxidative damage and could initiate colon, breast and prostate cancers, heart disease and other diseases. Tappel A. Med Hypotheses. 2007;68(3):562-4. Epub 2006 Oct 11. PMID: 17045417
 - <u>Red Meat Consumption (Heme Iron Intake) and Risk for Diabetes and Comorbidities?</u> Misra R, Balagopal P, Raj S, Patel TG. Curr Diab Rep. 2018 Sep 18;18(11):100. doi: 10.1007/s11892-018-1071-8.Review.

Questions & Answers

Susie Thomson, DipION; NTEC; mBANT; CNHC:

1. When a cancer cell metastasises enters a lymph node, it uses fat as fuel, What do we do with the diet of someone with metastatic cancer? I was advising really low glycemic/adapted keto, now I am not sure what to do.

Dr. Chilkov:

When a cancer cell metastasises enters a lymph node, it uses fat as fuel, What do we do with the diet of someone with metastatic cancer? I was advising really low glycemic/adapted keto, now I am not sure what to do.

Below is the reference paper:

Choong-kun Lee, Seung-hwan Jeong, Cholsoon Jang, Hosung Bae, Yoo Hyung Kim, Intae Park, Sang Kyum Kim, Gou Young Koh. Tumor metastasis to lymph nodes requires YAP-dependent metabolic adaptation. Science, 2019; 363 (6427):644 DOI: <u>10.1126/science.aav0173</u>

- The lymph node is a lipid rich environment. However the mass of a lymph node is very small. As the lymph node is not highly vascular, it is thus a relatively hypoxic environment and most tumor cells would revert to glycolysis not lipolysis. There is a subset of malignant cells that can maintain normal mitochondrial metabolism and can use fatty acids in any environment in the body. This is true outside the lymph node and inside the lymph node.
- I am not aware of any studies evaluating the impact of a ketogenic diet on metabolic tumor cells that have invaded the lymph node.
- In terms of "observation" of patients on ketogenic diets, we typically see less disease progression as MOST tumor cells are reliant upon glycolysis. There is not enough information to evaluate your question.

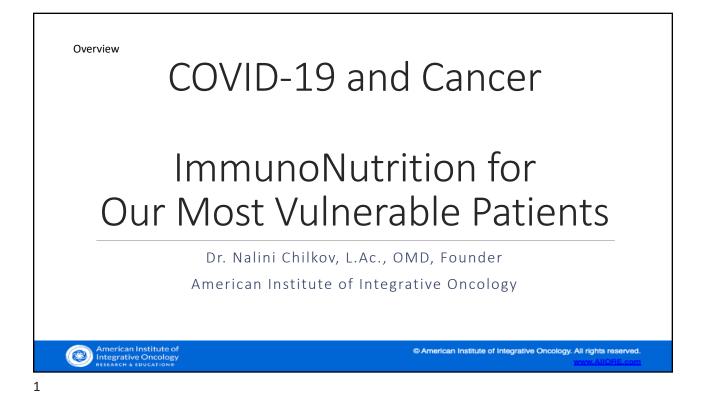
References:

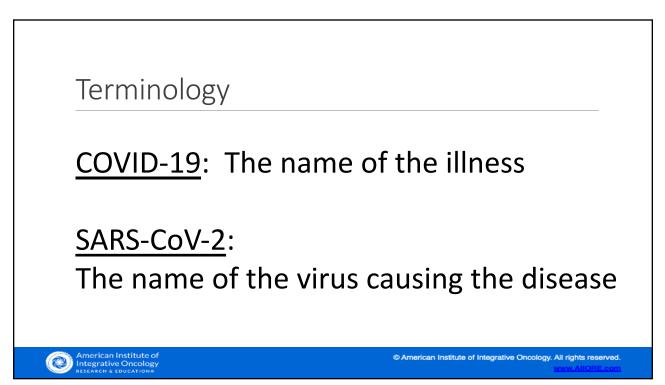
- 1. Carr, A., & Maggini, S. (2017). Vitamin C and Immune Function. *Nutrients*, *9*(11), 1211. doi: 10.3390/nu9111211
- Carrillo-Vico, A., Lardone, P., Álvarez-Sánchez, N., Rodríguez-Rodríguez, A., & Guerrero, J. (2013). Melatonin: Buffering the Immune System. International Journal of Molecular Sciences, 14(4), 8638–8683. doi: 10.3390/ijms14048638
- Chen, C., Zuckerman, D. M., Brantley, S., Sharpe, M., Childress, K., Hoiczyk, E., & Pendleton, A.R. (2014). Sambucus nigra extracts inhibit infectious bronchitis virus at an early point during replication. BMC Veterinary Research, 10(1), 24. doi: 10.1186/1746-6148-10-24
- Delia, R. V., Harrison, K., Oyston, P. C., Lukaszewski, R. A., & Clark, G. C. (2013). Targeting the "Cytokine Storm" for Therapeutic Benefit. Clinical and Vaccine Immunology, 20(3), 319–327. doi: 10.1128/cvi.00636-12
- 5. Gombart, A. F., Pierre, A., & Maggini, S. (2020). A Review of Micronutrients and the Immune System–Working in Harmony to Reduce the Risk of Infection. Nutrients, 12(1), 236. doi:

10.3390/nu12010236

- 6. Greiller, C., & Martineau, A. (2015). Modulation of the Immune Response to Respiratory Viruses by Vitamin D. *Nutrients*, 7(6), 4240–4270. doi: 10.3390/nu7064240
- 7. Hughes, D. A., & Norton, R. (2009). Vitamin D and respiratory health. *Clinical & Experimental Immunology*, *158*(1), 20–25. doi: 10.1111/j.1365-2249.2009.04001.x
- Lin, C.-W., Tsai, F.-J., Tsai, C.-H., Lai, C.-C., Wan, L., Ho, T.-Y., ... Chao, P.-D. L. (2005). Anti-SARS coronavirus 3C-like protease effects of Isatis indigotica root and plant-derived phenolic compounds. *Antiviral Research*, 68(1), 36–42. doi: 10.1016/j.antiviral.2005.07.002
- 9. Luo, H., Tang, Q.-L., Shang, Y.-X., Liang, S.-B., Yang, M., Robinson, N., & Liu, J.-P. (2020). Can Chinese Medicine Be Used for Prevention of CoronaVirus Disease 2019 (COVID-19)? A Review of Historical Classics, Research Evidence and Current Prevention Programs. Chinese Journal of Integrative Medicine, 26(4), 243–250. doi: 10.1007/s11655-020-3192-6
- Maggini, S., Wintergerst, E. S., Beveridge, S., & Hornig, D. H. (2007). Selected vitamins and trace elements support immune function by strengthening epithelial barriers and cellular and humoral immune responses. British Journal of Nutrition, 98(S1). doi: 10.1017/s0007114507832971
- Nasiri, M. J., Haddadi, S., Tahvildari, A., Farsi, Y., Arbabi, M., Hasanzadeh, S., ... Mirsaeidi, M. (2020). COVID-19 clinical characteristics, and sex-specific risk of mortality: Systematic Review and Meta-analysis. doi: 10.1101/2020.03.24.20042903
- Patel, S., & Vajdy, M. (2015). Induction of cellular and molecular immunomodulatory pathways by vitamin A and flavonoids. *Expert Opinion on Biological Therapy*, 15(10), 1411–1428. doi: 10.1517/14712598.2015.1066331
- Qin, C., Zhou, L., Hu, Z., Zhang, S., Yang, S., Tao, Y., ... Tian, D.-S. (2020). Dysregulation of immune response in patients with COVID-19 in Wuhan, China. *Clinical Infectious Diseases*. doi: 10.1093/cid/ciaa248
- 14. Read, S. A., Obeid, S., Ahlenstiel, C., & Ahlenstiel, G. (2019). The Role of Zinc in Antiviral Immunity. Advances in Nutrition, 10(4), 696–710. doi: 10.1093/advances/nmz013
- **15.** Timoneda, J., Rodríguez-Fernández, L., Zaragozá, R., Marín, M., Cabezuelo, M., Torres, L., ... Barber, T. (2018). Vitamin A Deficiency and the Lung. *Nutrients*, *10*(9), 1132. doi: 10.3390/nu10091132
- 16. Tisoncik, J. R., Korth, M. J., Simmons, C. P., Farrar, J., Martin, T. R., & Katze, M. G. (2012). Into the Eye of the Cytokine Storm. Microbiology and Molecular Biology Reviews, 76(1), 16–32. doi: 10.1128/mmbr.05015-11
- 17. Vetvicka, V., Vannucci, L., Sima, P., & Richter, J. (2019). Beta Glucan: Supplement or Drug? From Laboratory to Clinical Trials. *Molecules*, 24(7), 1251. doi: 10.3390/molecules24071251
- Wu, D., Lewis, E. D., Pae, M., & Meydani, S. N. (2019). Nutritional Modulation of Immune Function: Analysis of Evidence, Mechanisms, and Clinical Relevance. Frontiers in Immunology, 9. doi: 10.3389/fimmu.2018.03160

- 19. Wu, W., Li, R., Li, X., He, J., Jiang, S., Liu, S., & Yang, J. (2015). Quercetin as an Antiviral Agent Inhibits Influenza A Virus (IAV) Entry. Viruses, 8(1), 6. doi: 10.3390/v8010006
- **20.** Xu, H., Hou, K., Xu, H., Li, Z., Chen, H., Zhang, N., ... Guo, Y. (2020). Acute Myocardial Injury of Patients with Coronavirus Disease 2019. doi: 10.1101/2020.03.05.20031591
- 21. Yang, Y., Islam, M. S., Wang, J., Li, Y., & Chen, X. (2020). Traditional Chinese Medicine in the Treatment of Patients Infected with 2019-New Coronavirus (SARS-CoV-2): A Review and Perspective. International Journal of Biological Sciences, 16(10), 1708–1717. doi: 10.7150/ijbs.45538
- Yu, L., Tong, Y., Shen, G., Fu, A., Lai, Y., Zhou, X., ... Jiang, H. (2020). Immunodepletion with Hypoxemia: A Potential High Risk Subtype of Coronavirus Disease 2019. doi: 10.1101/2020.03.03.20030650
- 23. Zhang, H., Yeh, C., Jin, Z., Ding, L., Liu, B. Y., Zhang, L., & Dannelly, H. K. (2018). Prospective study of probiotic supplementation results in immune stimulation and improvement of upper respiratory infection rate. Synthetic and Systems Biotechnology, 3(2), 113–120. doi: 10.1016/j.synbio.2018.03.001
- 24. Zhang, R., Wang, X., Ni, L., Di, X., Ma, B., Niu, S., ... Reiter, R. J. (2020). COVID-19: Melatonin as a potential adjuvant treatment. Life Sciences, 250, 117583. doi: 10.1016/j.lfs.2020.117583
- 25. Zheng, Y.-Y., Ma, Y.-T., Zhang, J.-Y., & Xie, X. (2020). COVID-19 and the cardiovascular system. Nature Reviews Cardiology. doi: 10.1038/s41569-020-0360-5
- Zhou, T.-B., Drummen, G., & Qin, Y.-H. (2012). The Controversial Role of Retinoic Acid in Fibrotic Diseases: Analysis of Involved Signaling Pathways. *International Journal of Molecular Sciences*, 14(1), 226–243. doi: 10.3390/ijms14010226





Recommendations: : CDC Prevention Guidelines **Plus**

Engage in Social Isolation limit contact and observe physical distance Wear mask to protect self and others Practice Hand Washing + Mindful Hygiene Sleep 7-9 hours Daily Exercise 30 minutes minimum Nourishing Diet + Proper Hydration Stress Management+Relaxation Stay Connected to Others

American Institute of Integrative Oncology

rican Institute of

Monitor Body Temperature

Kinsa QuickCare Smart Digital Thermometer help improve ability to detect outbreaks and stop the spread of illness.

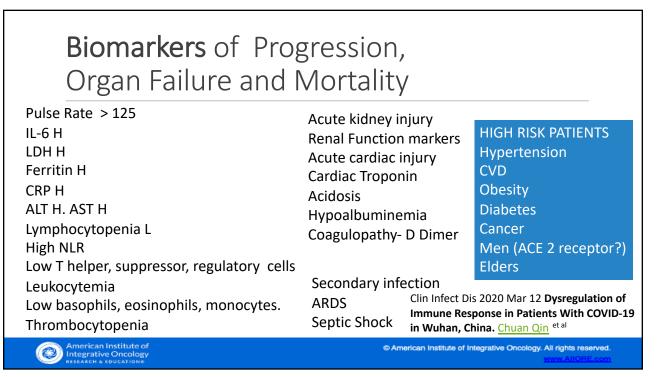
Collects information needed to know where and when illness is spreading in real-time, giving the right organizations the advance warning needed to stop outbreaks.

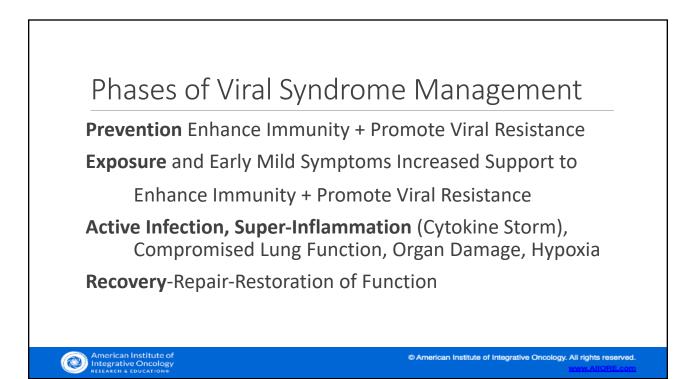


© American Institute of Integrative Oncology. All rights reserved

4

(B)





Immunonutrition Enhancing Immune Function and Viral Immunity

<u>Nutraceuticals</u> Vitamin A Vitamin C Vitamin D

Zinc Melatonin N Acetyl Cysteine

Key Botanicals Scutellaria baicalensis Andrographis paniculate Isatis tinctoria Urtica urens/dioca Panax quinquifolium

<u>Probiotics</u>

American Institute of Integrative Oncology RESEARCH & EDUCATION® Polysaccharides and Beta Glucans. (Phase One and Recovery only) Ganoderma Coriolus Cordyceps Tremella Astragalus

Phytochemicals Quercetin (bioflavinoid) Baicalen, Baicalein (phytophenol) Resveratrol (stilbene) Berberine (isoquinoline alkaloid) Sulphoraphanes (nrf2)

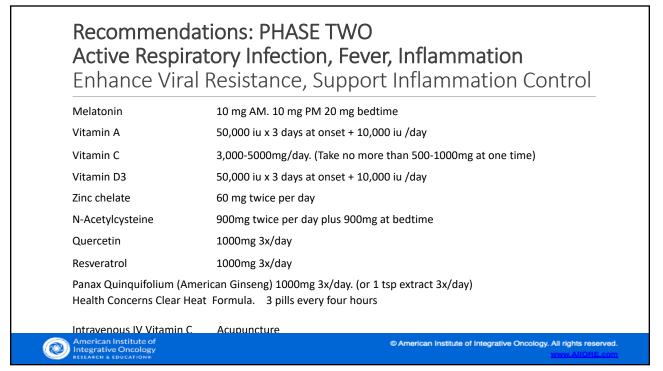
© American Institute of Integrative Oncology. All rights reserved.

Recommendations: PHASE ONE A Prevention Support Immune Function Enhance Viral Resistance

No Viral Exposure-Prevention		Viral Exposure- Mild and Early Symptoms of Infection		
Melatonin 10-20mg at bedtime 10		10 mg AM. 10 mg PM 20 mg bedtime		
Vitamin A	5000-10,000 iu per day	50,000 iu x 3 days at onset + 10,000 iu /day		
Vitamin C	2,000-3,000/day	3,000-5000mg/day		
Vitamin D3	5,000-10,000 iu per day	50,000 iu x 3 days at onset + 10,000 iu /day		
Zinc chelate	60 mg per day	60 mg twice per day		
Mushrooms (Polysaccharides-I	3 grams daily beta glucans)	3 grams twice per day		
Astragalus Root Health Concerns	3 grams (dry) or 1 tsp extract daily	3 grams (dry) or 1 teaspoon extract twice per day		
Astra-Isatis or Tremella & Ginseng Formula 3 tabs 2x daily		Health Concerns Clear Heat Formula 3 tabs 4x/day		
Acupuncture		Acupuncture		
American Institute of Integrative Oncology		© American Institute of Integrative Oncology. All rights reserved.		

<section-header><section-header><text><text><text><text><text><page-footer>





Recovery-Repair-Repletion-Restoration

Sequela

Fatigue-Exhaustion-Weakness (Qi Deficiency)

Pulmonary damage and fibrosis

Myocardial damage and fibrosis

Hepatic damage and fibrosis

Renal damage and fibrosis (secondary to Rhabdomyolysis)

Loss of Muscle Mass

Compromised Cognitive Function (hypoxia, ventilator, sedation)

Disrupted Gastrointestinal Function

PTSD

11

American Institute of Integrative Oncology RESEARCH & EDUCATION®

Tools and Resources for Recovery

BASICS: Diet-Sleep-Exercise-Hydration Acupuncture Nutritional Supplements and Functional Foods

Nourishing, Strengthening, Tonifying Herbs

Support for Stress Resilience

Tai Chi, Chi Gung, Yoga, Prayer, Meditation

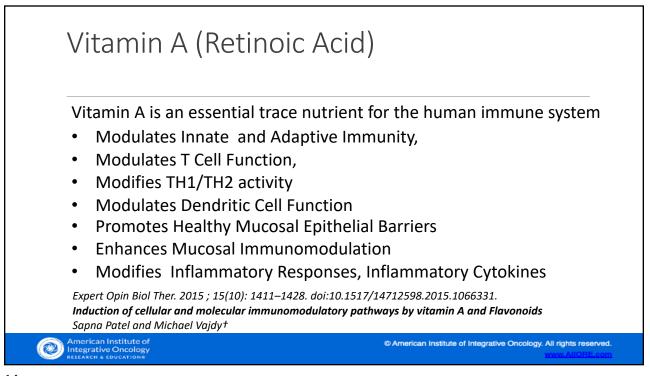
Emotional and Spiritual Support

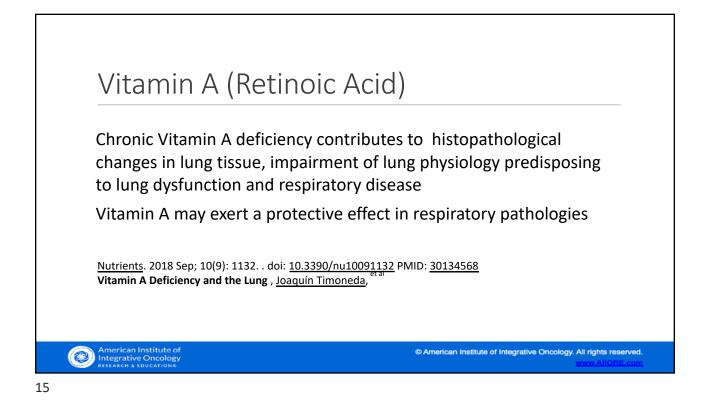
Nature-Sunshine-Fresh Air, Trees, Forest, Lakes, Rivers, Ocean, Open Sky, Gardens

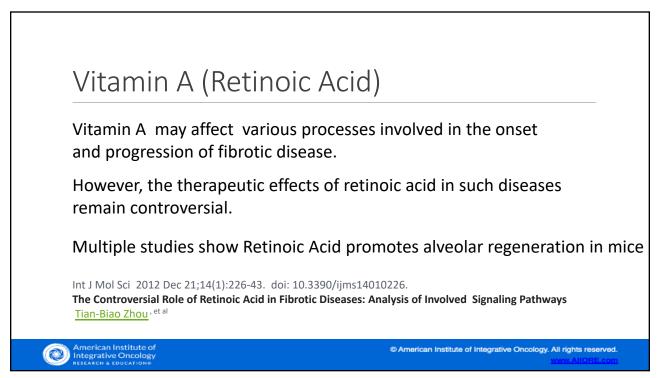
© American Institute of Integrative Oncology. All rights reserved.

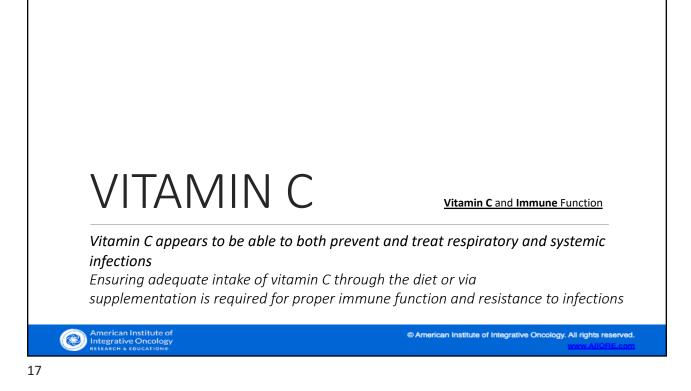
NUTRICEUTICALS

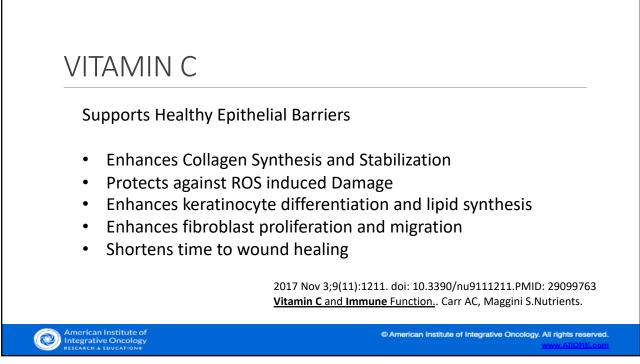












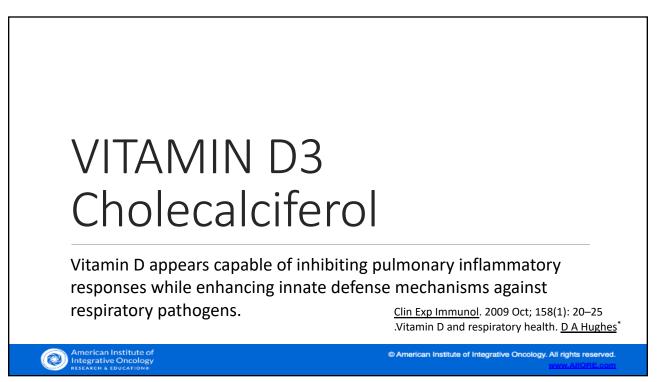
VITAMIN C Role of vitamin C in phagocyte function Enhance neutrophil migration in response to chemo-attractants (chemotaxis) Enhance engulfment (phagocytosis) of microbes Stimulate reactive oxygen species (ROS) generation and killing of microbes. Supports caspase-dependent apoptosis, enhancing uptake and clearance by macrophages Inhibits necrosis, including NETosis (neutrophil extracellular traps) Supports resolution of the inflammatory response Attenuates tissue damage.

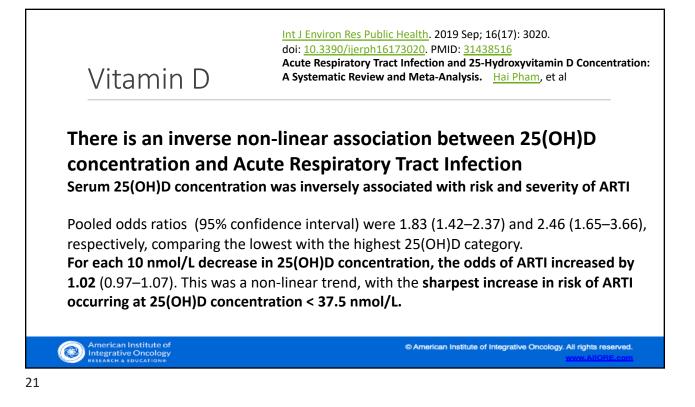
C American Institute of Integrative Oncology. All rights reserved.

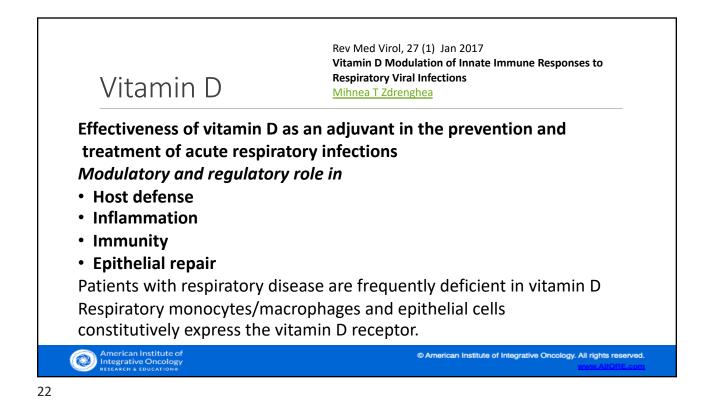
19

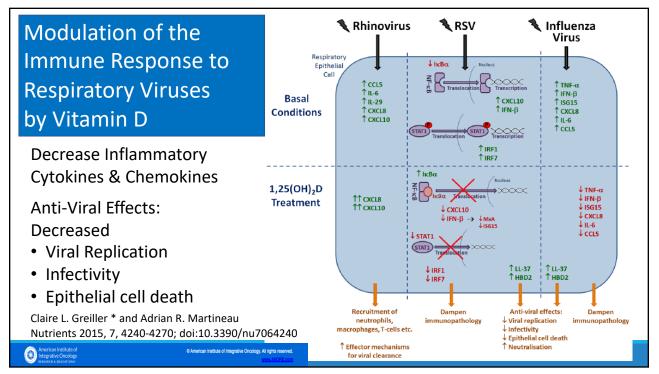
Ø

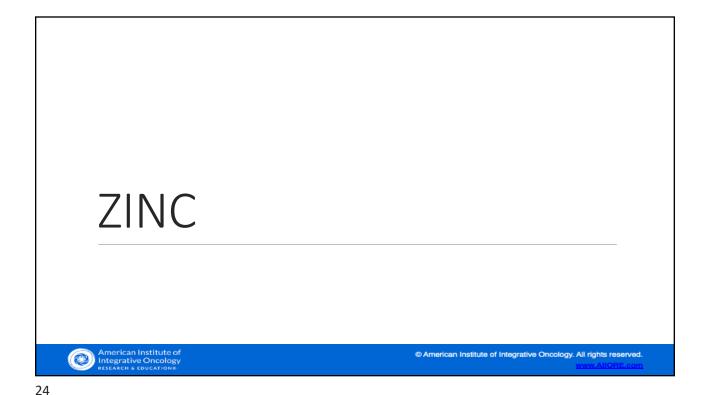
ican Institute of



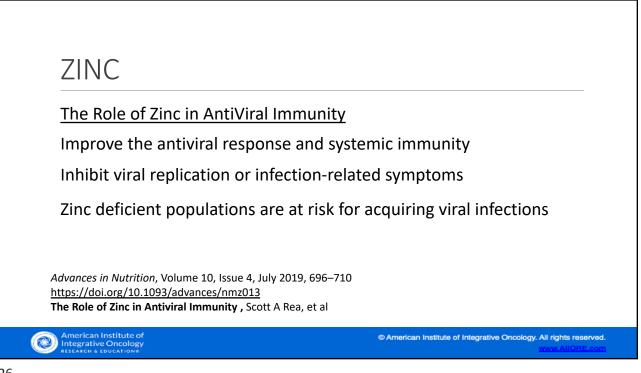




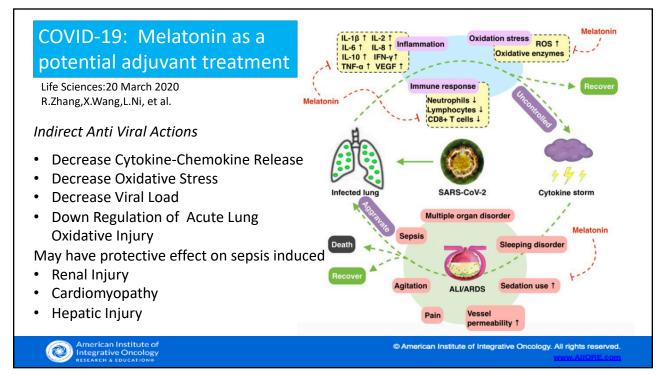


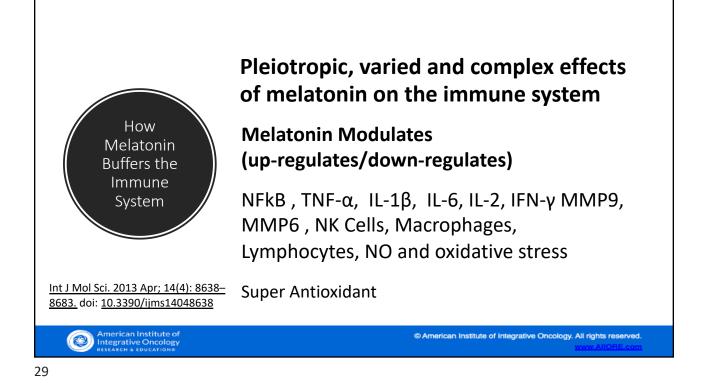


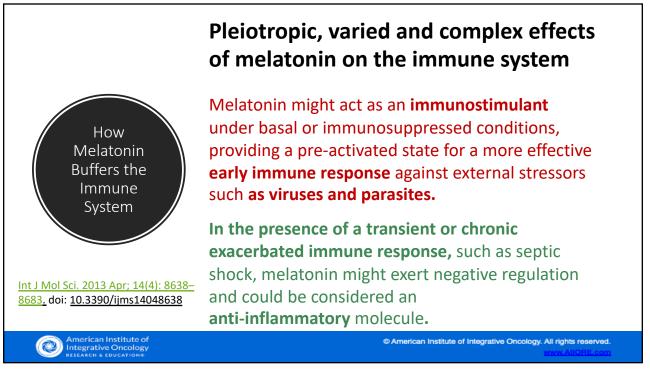
Zinc Can Signal a	n AntiViral Response
	mmune system function diseases
 Influences NK cell activity lymphocyte proliferation macrophage phagocytic activity neutrophil function antibody response 	Front. Immunol., 15 January 2019 <u>doi.org/10.3389/fimmu.2018.0316</u> Nutritional Modulation of Immune Function: Analysis of Evidence, Mechanisms, and Clinical Relevance <u>Dayong Wu</u> et al
American Institute of Integrative Oncology	C American Institute of Integrative Oncology. All rights reserved.

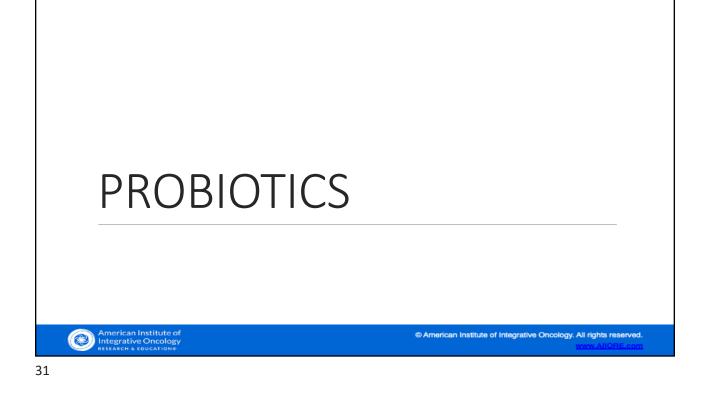


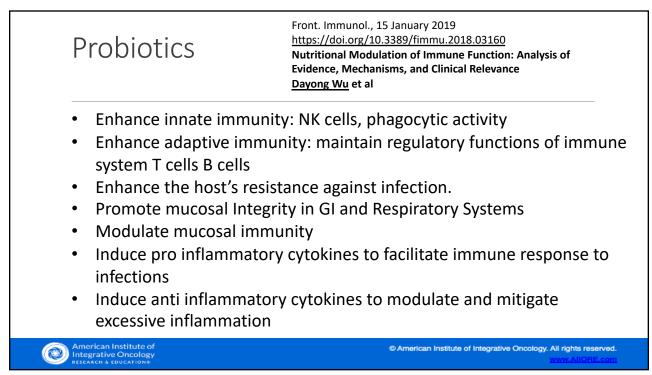


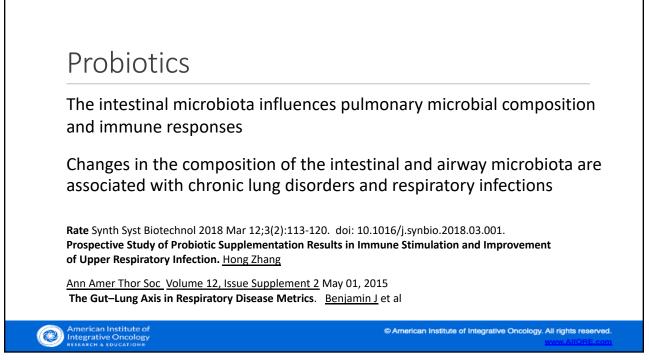


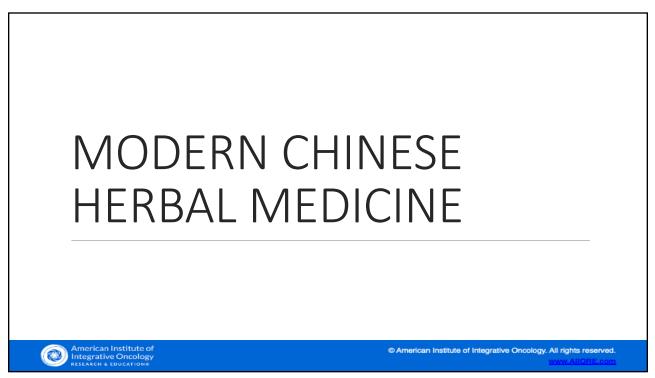








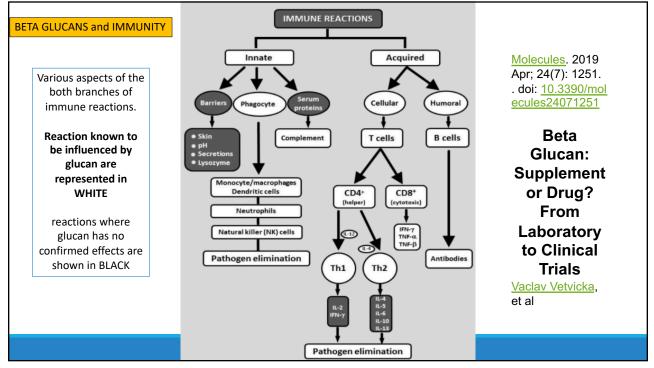


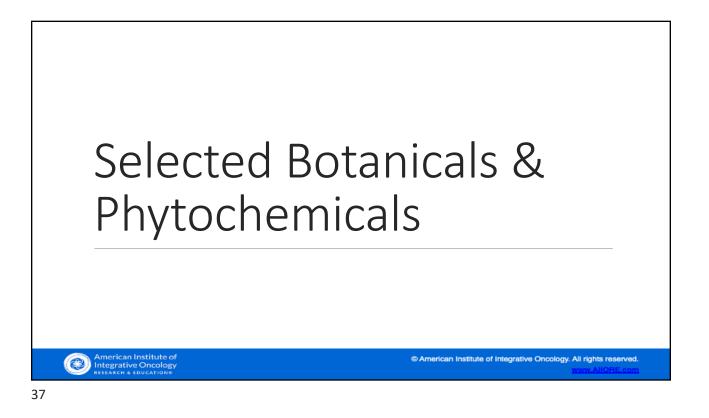


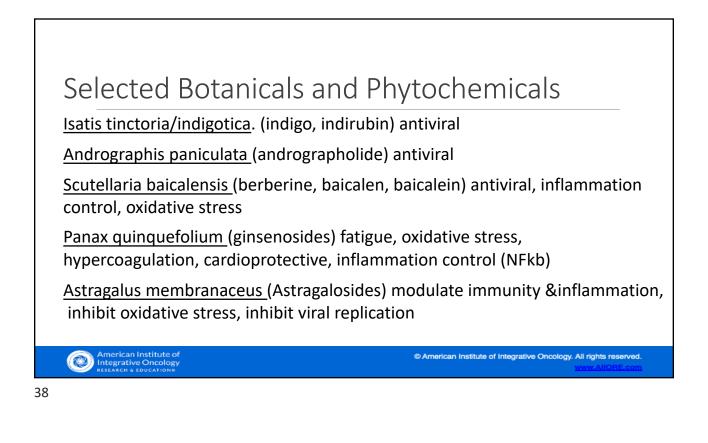
POLYSACCHARIDES BETA GLUCANS

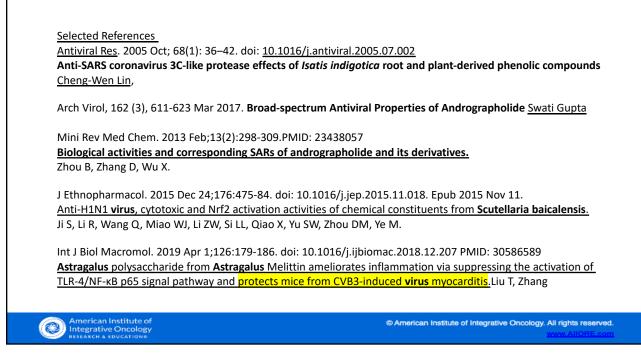
Chinese Medicinal Mushrooms, Astragalus Root

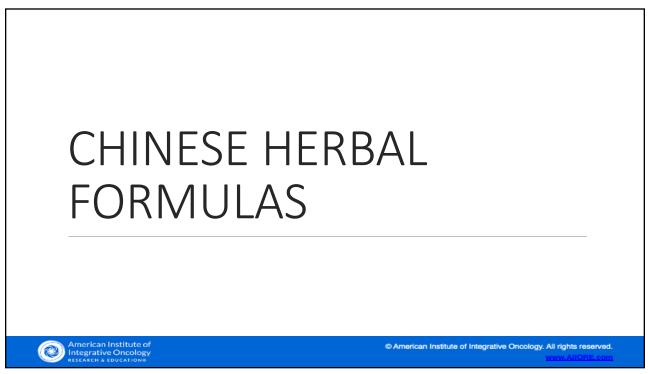
Beta-glucan is a broad term covering any polysaccharide that is composed of β -d-glucopyranosyl (β -d-Glcp) units as the primary building block.











Tremella & Ginseng Formula (Health Concerns) Prevention/Recovery

Chinese Therapeutic Actions: Tonifies Yin, Qi, Blood, Essence; Strengthens Marrow, Wei Qi, Spleen/Stomach, Lungs, Kidney; Clears Heat and Toxin

Tremella (Bai Mu Er) American Ginseng (Xi Yang Shen) Astragalus (Huang Qi) Schizandra (Wu Wei Zi) Raw Rehmannia (Sheng Di) Lycium fruit (Gou Qi Zi) Lycium bark (Di Gu Pi) Isatis extract (Ban Lan Gen/Da Qing Ye) Lonicera (Jin Yin Hua) Viola (Zi Hua Di Ding) Ganoderma (Ling Zhi Cao) Ophiopogon (Mai Men Dong)

an Institute of

Cuscuta (Tu Si Zi) Dendrobium (Shi Hu) Milletia (Ji Xue Teng) Glehnia (Sha Shan) Tang-keui (Dang Gui) Tortoise shell (Gui Ban) Epimedium (Yin Yang Huo) Citrus (Chen Pi) Curcuma (Yu Jin) Licorice (Gan Cao) Cardamon (Sha Ren)

41

 (\mathbf{a})

ASTRA-ISATIS Formula (Health Concerns) 2/3x/day

Immune system tonic for chronic viral infections and inflammations accompanied by fatigue, facial flushing agitation, and lymphatic swelling.

Isatis extract leaf & root Da Qing Ye & Ban Lan Gen Astragalus root Huang Qi Bupleurum root Chai Hu Laminaria leaf Kun Bu Codonopsis root Dang Shen Tonifies Qi, Yin, and Yang Clears Phlegm

C American Institute of Integrative Oncology. All rights reserved.

Epimedium leaf Yin Yang Huo Lycium fruit Gou Qi Zi Dioscorea root Shan Yao Broussonetia fruit Chu Shi Zi White Atractylodes rhizome Bai Zhu Licorice root Gan Cao

CLEAR HEAT FORMULA (Health Concerns) 3/3x/day Bacterial, Viral, Fungal infections with fever Clears Heat and Cleans Toxin, Tonifies Kidney Essence, Tonifies Lung Yin **Dissolves Phlegm Nodules** Isatis extract leaf and root Da Qing Ye & Ban Lan Gen Oldenlandia herb Bai Hua She She Cao Lonicera flower Jin Yin Hua Prunella herb Xia Ku Cao Andrographis herb Chuan Xin Lian Laminaria leaf Kun Bu Viola herb / root Zi Hua Di Ding Cordyceps fruiting body Dong Chong Xia Cao Licorice root Gan Cao C American Institute of Integrative Oncology. All rights reserved. **(B)**

43

Tonification-Recovery-Restoration ENHANCE FORMULA (Health Concerns by Dr. Misha Cohen) 8 small herb pills 3x/day

Immune enhancement and immune regulation in conjunction with disorders of *chronic viral inflammation and infection.* Useful in persons with chronic viral syndromes, immune dysfunction disorders.

Chinese Therapuetic Effects:

Tonifies Qi, Blood, Yin, Yang, Essence Clears Heat, Cleans Toxin, Strengthens Wei Qi, Clears Phlegm Strengthens Spleen, Stomach, Kidney energy

Ganoderma (Reishi) fruiting body *Ling Zhi* Isatis Extract leaf & root *Da Qing Ye & Ban Lan Gen* Spantholobus root/stem *Ji Xue Teng* Astragalus root *Huang Qi* Tremella fruiting body *Bai Mu Er* Andrographis herb *Chuan Xin Lian* Lonicera flower *Jin Yin Hua* Aquilaria sinensis lignum *Chen Xiang* Epimedium herb *Yin Yang Huo*

ican Institute of

Oldenlandia herb *Bai Hua She She Cao* Cistanche salsa herb *Rou Cong Rong* Lycium fruit *Gou Qi Zi* Laminaria leaf *Kun Bu* Tang Kuei root *Dang Gui* Hu-Zhang herb *Hu Zhang* American Ginseng root *Xi Yang Shen* Schizandra fruit *Wu Wei Zi* Ligustrum fruit *Nu Zhen Zi* White Atractylodes root *Bai Zhu*

Rehmannia root Shu Di Huang Salvia root Dan Shen Curcuma tuber Yu Jin Viola herb/root Zi Hua Di Ding Citrus peel Chen Pi White Peony root Bai Shao Ho-shou-wu root He Shou Wu Eucommia bark Du Zhong Cardamon fruit Sha Ren Licorice root Gan Cao

© American Institute of Integrative Oncology. All rights reserved.

eserved.

Nourish Lung Yin Restoration-Recovery Lily Bulb Formula-Bai He Gu Jin Wan (Health Concerns-TCMZone)

Nourish and moisten the lungs, clear heat and dryness nourish lung yin

	Lily Bulb	Bai He
	Raw Rehmannia Root	Sheng Di Huang
	Cooked Rehmannia Root	Shu Di Huang
	Ophiopogon Root	Mai Men Dong
	Fritillaria bulb	Chuan Bei Mu
	Platycodon	Jie Geng
	Tang Kuei Root	Dang Gui
	White Peony Root	Bai Shao
	Scrophularia Root	Xuan Shen
	Licorice Root	Gan Cao
American Institute of		© American Institute of Integrative Oncology. All rights re-

American Institute of Integrative Oncology RESEARCH & EDUCATION®



CASE STUDY SUBMISSION

Important: In observance of HIPAA and the sacred trust between care giver and patient, absolutely no patient names or identifying information is to be disclosed. Patient privacy is to be preserved. If you attach any medical records, pathology, surgical or laboratory reports, all names are to be removed.

Date	
Clinician Name & Credentials	
Email	

Describe Your Patient (Please SUMMARIZE and use economy of words. You will have 15 minutes to present)

Age, Gender & Ethnicity	
Body Type	
Values	
What is most important to this patient? (Quality of Life, Decision Making, Side Effects?)	
Stress Resilience	
Other	
Primary Diagnosis & Date	
(ex. Breast Cancer L, T3 N1 M0, BRCA1 positive, grade 3, Ki67 > 45%)	
Secondary Diagnosis	
(ex. Diabetes Type 2, Obesity)	

Patient Status

New Diagnosis	Recurrence	In Treatment	□ In Recovery	□ In Remission	□ At Risk
Concomitant and/or Complicating Factor	s				
(ex: poorly controlled insomnia, poor suppo					
Adverse Effects of C Cancer Treatments (ex. anxiety-depression diarrhea, peripheral no	on,				
Relevant Laboratory Pathology & Medical	·				
(attach a PDF with pa identifying information or summarize)					



American Institute of Integrative Oncology RESEARCH & EDUCATION

Brief Summary of Additional Relevant Health, Medical, Psycho-Social and/or Family History

Other Relevant Information

Such as Chinese or Ayurvedic diagnosis, Naturopathic/Homeopathic Information, etc. (ex. Liver Qi Stagnation, Dysbiosis)

Brief Summary of Relevant Past Oncology or Medical Treatments

(ex. surgery, radiotherapy, chemotherapy, immunotherapy, hormone therapy, drug therapy)

Summary of Recent and Current Treatments

Medical Oncology Care (surgery, radiotherapy, chemotherapy, immunotherapy, hormone therapy, drug therapy)

Integrative Oncology Care (nutraceutical, botanical, phytochemical, acupuncture, energy medicine, other)

Your 2 Core Questions (stated clearly and succinctly)

1.

2.

Attached Medical Records for Reference (with patient identifying information removed)



www.aiiore.com

DR. NALINI CHILKOV INTEGRATIVE ONCOLOGY PROFESSIONAL TRAINING PROGRAM

Reviewed by Dr. Chilkov 04.15.2020

Case Study: 71 y/o F Breast cancer - Multi-foci invasive mucinous carcinoma Submitted by: Judy Pruzinsky Date Submitted: 03/10/2020

Dr. Chilkov Recommendation:

Overview:

Primary Diagnosis:

- 71 y/o F Breast cancer
- 1/31/20 Excisional biopsy: Breast cancer, Multi-foci invasive mucinous carcinoma,
- 1.1 cm of larger, 0.6 cm smaller, grade II w MBR 6.
- DCIS extensive intraductal, at least 1.6 cm, cribriform and micropapillary
- Grade I, necrosis focal less than 5mm from margin more reason for radiation
- ER +, PgR+, HER2 -.

Secondary Diagnosis:

- Oncotype results: two tumors one with recurrence score of 2 other 5,
- Both with distant recurrence risk at 9 years 3%. CT benefit less than 1%,
- 11.0 ER +, 10.0 PR +, 8.3 HER2-Dr. NC Comment: Low oncotype scores. Little benefit from CT. Also consider her age.

Concomitant and/or Complicating Factors:

- Osteoporosis

Adverse Effects of Cancer or Cancer Treatments:

- After surgery: skin peel, bad yeast infection,
- Bladder leakage with tube withdrawal bronchospasm and asthma

Relevant Laboratory, Pathology & Medical Reports

- Low lymphocytes 23%
- High glucose 119 Not fasting

Current Treatment:

- Low lymphocytes 23% high glucose 119 Not fasting
- General nutraceutical and herbal support: VegeMeal, Probiophage,
 Add Carnitine Tartrate to shake for muscle mass, mitochondrial function
- Hydrolyzyme/Digestzyme and HCI, Vit D, Ocuforce, Lycium Support, HSN, Immunitone or Ultimate Antiox off and on for GI upset: combos of GI Microb X, Olive



RESEARCH & EDUCATION

www.aiiore.com

Leaf, Oregano, Allicillin

- Additional since dx: Twice Daily, Resveratrol, Melatonin, Curcumin, Immunoberry, CA Support, Omega Synergy changed to Ultra for dosing to 4 gr/day,
 - I like DFH Resveratrol Supreme (Resveratrol +Quercetin) for ER+ BrCA. Consider this for your "resveratrol" supplement.

Osteoben changed to Osteoforce and TRF due to Genistein and hormone positive - I hear mixed views, what are your thoughts?

 (Osteoforce contains Copper. I prefer NO COPPER in supplements with cancer history. Genistein is also an aromatase inhibitor. It does not drive ER + cancers Preferentially binds to ER in bone and brain, not in breast)

CORE QUESTION:

- 1. Because of close margins (with good oncotype report) is it important to do the radiation in addition to the AI?
 - (She had more than one lesion, plus diffuse disease and close margins. Surgery cannot get it all RT is an extra insurance policy.)
 - The course of RT recommended is reasonable...not too aggressive or lengthy
- 2. What are the Side effects?
 - Fatigue, Radiation dermatitis, some scatter to lungs and heart depending on location of the field. Some tissue fibrosis. Most SE of RT are not experienced by patient until several weeks into course of treatment
 - A BENEFIT of RT: there is a systemic immune response to tumor cells that is durable. This is like a vaccine to her own tumor cells.
- 3. MD said no high dosing of vitamin A, C, E while on radiation will make it less effective. Is that True? Anything else to not take?
 - Avoid nutraceutical oral antioxidants in high doses.
 - The amount in a multivitamin will not disrupt RT. The antioxidants in plants do not interfere with RT
- 4. Would it be a valid option to have another surgery done to make sure margins are cleaner instead of radiation? What's more injurious?
 - That would be the surgeon's call.
 - More surgery brings many more risks.
 - Surgeries are NOT being done now unless URGENT due to COVID 19

Dr. Chilkov Recommendation:

- Consider Six Gentlemen Formula/Xiang Sha Liu Jun Zi Tang or
- Ginseng and Astragaluls/ Bu Zhong Yi QI Tang?
- CUSTOM TONIC to Support Immunity, Tumor Control, Aromatase inhibition



American Institute of Integrative Oncology RESEARCH & EDUCATION

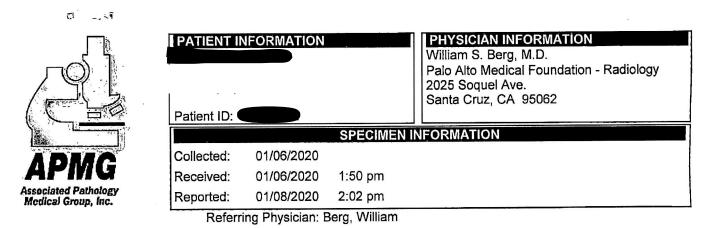
RESEARCH & EDUCATI

DR. NALINI CHILKOV INTEGRATIVE ONCOLOGY PROFESSIONAL TRAINING PROGRAM

www.aiiore.com

I would like to see her take a formula like this two weeks on two weeks off for one year
1 teaspoon twice daily
30 Scutellaria Baicalensis Huang Qin
30 Scutellaria barbata Ban Zhi Lian
30 Astragalus Huang Qi
30 Ganoderma Ling Zhi
20 Oldenlandia diffusa Bai Hua She She Cao
20 Curcuma longa (Yu Jin)
20 Camelia chinensis (Green Tea)
20 Uritca dioca Root (aromatase inhibitor)
10 Taxus brevifolia tips
10 Citrus Reticulata Chen Pi
10 Zingiber off, dried Ginger Root Gan Jiang

10 Glycyrrhiza Gan Cao



SURGICAL PATHOLOGY REPORT

CLINICAL INFORMATION

CLINICAL HISTORY: CALCIFICATIONS

FINAL DIAGNOSIS

DIAGNOSIS:

RIGHT BREAST, 6:00, STEREOTACTIC CORE NEEDLE BIOPSIES: A. FOCAL AREAS OF EXTRACELLULAR MUCIN CONTAINING ATYPICAL GLANDULAR EPITHELIUM, SUSPICIOUS FOR INVASIVE MUCINOUS OR COLLOID CARCINOMA. (SEE COMMENT.) B. MODERATELY SIZED DILATED DUCTS CONTAINING ATYPICAL PAPILLARY EPITHELIAL PROLIFERATION MOST SUGGESTIVE OF INTRADUCTAL PAPILLOMA INVOLVED BY DCIS. C. MICROCALCIFICATIONS ARE ASSOCIATED WITH THE ATYPICAL PAPILLARY EPITHELIAL PROLIFERATION BUT ARE NOT ASSOCIATED WITH COMEDO TYPE NECROSIS. D. SMALL TO MODERATELY SIZED DUCTS LOCATED AWAY FROM INTRADUCTAL PAPILLARY NEOPLASM DEMONSTRATING ARCHITECTURAL AND CYTOLOGIC ATYPIA MOST CONSISTENT WITH LOW NUCLEAR GRADE DCIS OF PREDOMINANTLY CRIBRIFORM ARCHITECTURAL TYPE.

COMMENT: Slides A and C each demonstrate intraductal papillary epithelial proliferation that appears to be involved by low nuclear grade ductal carcinoma in situ of predominantly cribriform architectural type. Slide C also shows several detached fragments of papillary epithelial proliferation more consistent with intraductal papilloma. The ductal carcinoma in situ present on slide A shows focal central necrosis of neoplastic cells but does not demonstrate high nuclear grade or true comedo type necrosis. Slide B demonstrates two moderate sized ducts involved by fairly rigid low nuclear grade epithelial proliferation suggestive of low-grade DCIS.

In addition to the above described findings, slide A also demonstrates several small pools of mucin that contain small clusters of mildly atypical epithelial cells. These are quite suspicious for invasive mucinous or colloid carcinoma. The maximum dimension of any contiguous focus of possible invasive mucinous carcinoma appears to be slightly greater than 1 mm and is most likely not microinvasive in nature.

The histologic findings described above strongly warrant complete excision of the radiographic abnormality. Given the presence of at least 1 mm of probable invasive mucinous carcinoma, and perhaps a larger lesion, we do recommend sentinel lymph node sampling at the time of surgical treatment. We have performed estrogen and progesterone receptor staining on block A containing the probable invasive carcinoma, and will attempt to have NeoGenomics perform HER2 studies on this block if enough invasive carcinoma remains. Appropriate clinical correlation and followup are strongly recommended. Dr. Westphal has reviewed all three slides and concurs with the diagnosis.

Carlene A. Hawksley, M.D., Medical Director

M. Quinn Wickham, M.D.

Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607 Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603. Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326

> 2321740 * * * FINAL REPORT * * *

Page 1 of

Sutter Health Epic Upload on 1/8/2020 at 3:58:39 PM



PATIENT IN Patient ID:				PHYSICIAN INFORMATION Sutter Maternity and Surgery Center Sutter Maternity & Surgery Center 2900 Chanticleer Avenue Santa Cruz, CA 95065	
		SPECIME	N I	NFORMATION	Research 1
Collected:	01/31/2020				
Received:	02/03/2020	10:24 am			
Reported:	02/07/2020	3:20 pm			

Referring Physician: DeSimone, Christopher Copies sent to: Sutter Maternity and Surgery Center

SURGICAL PATHOLOGY REPORT

CLINICAL INFORMATION

CLINICAL HISTORY:

MALIGNANT NEOPLASM OF LOWER INNER QUADRANT OF RIGHT FEMALE BREAST

FINAL DIAGNOSIS

DIAGNOSIS:

1. RIGHT AXILLARY SENTINEL LYMPH NODE, EXCISIONAL BIOPSY: ONE LYMPH NODE NEGATIVE FOR MALIGNANCY ON MULTIPLE LEVEL SECTIONS EXAMINED.

COMMENT: After the initial H&E stained section did not demonstrate evidence of metastatic tumor, we performed deeper levels x2 from the paraffin block. These confirm the absence of metastatic disease.

2. RIGHT BREAST, WIRE LOCALIZATION EXCISIONAL BIOPSY:

A. PROMINENT REPARATIVE CHANGES PRESENT IN THE INFERIOR HALF OF THE SPECIMEN CONSISTENT WITH PREVIOUS CORE NEEDLE BIOPSY SITE.

B. TWO APPARENTLY SEPARATE AND DISTINCT FOCI OF GRADE I INVASIVE DUCTAL CARCINOMA WITH EXTENSIVE EXTRACELLULAR MUCIN QUALIFYING AS MUCINOUS OR COLLOID CARCINOMAS. (SLIDE 2C IN SLICE 6 AND SLIDE 2J IN SLICE 9.)

C. THE LARGER FOCUS OF INVASIVE DUCTAL CARCINOMA IS ADJACENT TO THE PREVIOUS BIOPSY SITE ON SLIDE 2J AND MEASURES 1.1 CM IN MAXIMUM DIMENSION.

D. SMALLER FOCUS OF INVASIVE DUCTAL CARCINOMA IS PRESENT IN BREAST TISSUE AWAY FROM THE PREVIOUS BIOPSY SITE (SLIDE 2C) AND MEASURES 0.6 CM IN MAXIMUM DIMENSION.

E. SURGICAL RESECTION MARGINS NEGATIVE FOR INVOLVEMENT BY INVASIVE DUCTAL CARCINOMA WITH THE CLOSEST APPROACH OF INVASIVE TUMOR IN SLICE 6 TO THE POSTERIOR MARGIN MEASURING 2 MM AND THE CLOSEST APPROACH OF THE INVASIVE TUMOR IN SLICE 9 MOST CLOSELY APPROACHING THE POSTERIOR MARGIN TO WITHIN 3 MM. F. EXTENSIVE DUCTAL CARCINOMA IN SITU OF LOW NUCLEAR GRADE AND PREDOMINANTLY CRIBRIFORM ARCHITECTURAL TYPE IS PRESENT IN CONSECUTIVE SLICES FROM SLICE 6 TO SLICE 11, MEASURING 1.6 CM IN MAXIMUM DIMENSION BY GLASS SLIDE MEASUREMENT. G. DUCTAL CARCINOMA IN SITU DEMONSTRATES FOCAL CENTRAL NECROSIS AND FOCALLY PROMINENT COARSE MICROCALCIFICATIONS.

M. Quinn Wickham, M.D. Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607 Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603, Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326

Carlene A. Hawksley, M.D., Medical Director



PATIENT IN	FORMATION			PHYSICIAN INFORMATION Sutter Maternity and Surgery Center Sutter Maternity & Surgery Center 2900 Chanticleer Avenue Santa Cruz, CA 95065
		SPECIMI	NI	NFORMATION
Collected:	01/31/2020			
Received:	02/03/2020	10:24 am		
Reported:	02/07/2020	3:20 pm		

Referring Physician: DeSimone, Christopher Copies sent to: Sutter Maternity and Surgery Center

SURGICAL PATHOLOGY REPORT

H. DUCTAL CARCINOMA IN SITU VERY CLOSELY APPROACHES THE SUPERIOR MARGIN TO WITHIN LESS THAN 0.5 MM (SLIDE 2A) AND MOST CLOSELY APPROACHES THE POSTERIOR RESECTION MARGIN TO WITHIN 2 MM, WITH ALL OTHER MARGINS GREATER THAN 2 MM FOR DCIS.

I. NON-NEOPLASTIC BREAST PARENCHYMA DEMONSTRATES PROMINENT PROLIFERATIVE FIBROCYSTIC CHANGES INCLUDING ATYPICAL DUCTAL HYPERPLASIA, WITHOUT DEFINITE ATYPICAL INTRADUCTAL PAPILLARY PROLIFERATION IDENTIFIED. (SEE COMMENT.)

COMMENT: We have reviewed the patient's previous core needle biopsies of the right breast at 6:00 (P20-39.) Those biopsies showed a single focus of extracellular mucin containing atypical glandular epithelium that was highly suspicious for invasive mucinous or colloid carcinoma. That focus measured approximately 1 mm with associated extensive intraductal atypical proliferation most consistent with low nuclear grade ductal carcinoma in situ of predominantly cribriform architectural type. Some of the features in the prior core biopsies raised the possibility of an intraductal papillary neoplasm involved by low-grade ductal carcinoma in situ. Complete excision of the radiographic abnormality with consideration for sentinel lymph node sampling was recommended at that time.

In the current wire localization excisional biopsy, the biopsy site is identified within slices 8-11 (total of 13 slices.) The tissue adjacent to the previous biopsy site does demonstrate residual invasive mucinous carcinoma that does not involve surgical resection margins. There appears to be a second focus of invasive mucinous carcinoma at some distance from the prior biopsy site change, which also has negative surgical resection margins. The breast tissue, however, also demonstrates quite extensive ductal carcinoma in situ of low nuclear grade and predominantly cribriform architectural type. There is a spectrum of intraductal atypia ranging from atypical ductal hyperplasia in some of the biopsies away from the prior biopsy site to definite low nuclear grade DCIS. Microcalcifications are associated with some of the foci of DCIS despite the lack of comedo type necrosis. There is focal central necrosis of the DCIS present as well. Unfortunately, the ductal carcinoma in situ is present on slide 2A representing slice 1 containing the superior margin sectioned perpendicular to the inked margin. This focus of DCIS closely approaches the blue inked margin to within less than 0.5 mm. Appropriate clinical correlation and followup are recommended.

Dr. Westphal has reviewed slides 2A, 2C, 2J, 2L, and 2M and concurs with the diagnosis.

COMMENT: SYNOPTIC REPORT: BREAST

AJCC pTNM Staging (8th Edition).

PROCEDURE: Excision with wire localization. SPECIMEN LATERALITY: Right.

TUMOR SITE: 6:00. TUMOR SIZE: 1.1 cm.

Carlene A. Hawksley, M.D., Medical Director M. Quinn Wickham, M.D. Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607

Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603. Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326

	PATIENT IN	FORMATION		PHYSICIAN INFORMATION Sutter Maternity and Surgery Center Sutter Maternity & Surgery Center 2900 Chanticleer Avenue Santa Cruz, CA 95065
			SPECIME	IN INFORMATION
ADMA	Collected:	01/31/2020		2
APMG	Received:	02/03/2020	10:24 am	
Associated Pathology Medical Group, Inc.	Reported:	02/07/2020	3:20 pm	
	Referr	ing Physician: De	Simone, Christo	pher

Copies sent to: Sutter Maternity and Surgery Center

SURGICAL PATHOLOGY REPORT

HISTOLOGIC TYPE OF INVASIVE CARCINOMA: Invasive mucinous carcinoma.

HISTOLOGIC GRADE: Grade II with a total MBR score of 6 (tubules 3, nuclei 2, mitoses 1).

TUMOR FOCALITY: Multiple foci of invasive carcinoma as described above with the larger measuring 1.1 cm and the smaller measuring 0.6 cm.

DUCTAL CARCINOMA IN SITU: DCIS is present and positive for extensive intraductal component. SIZE (EXTENT) OF DCIS: At least 1.6 cm by glass slide measurement. ARCHITECTURAL PATTERNS: Cribriform and micropapillary. NUCLEAR GRADE: Grade I or low. NECROSIS: Present, focal.

LOBULAR CARCINOMA IN SITU: No LCIS is present.

MARGINS:

INVASIVE CARCINOMA: Uninvolved by invasive carcinoma with the closest approach to the posterior resection margin for both foci of invasive mucinous carcinoma measuring greater than 2 mm.

DCIS: Not definitively involved by DCIS, but the closest approach of DCIS to the superior margin measures less than 0.5 mm and the closest approach of DCIS to the posterior resection margin measures 2 mm.

REGIONAL LYMPH NODES: UNINVOLVED BY TUMOR CELLS NUMBER OF LYMPH NODES EXAMINED: 1. NUMBER OF SENTINEL LYMPH NODES EXAMINED: 1.

TREATMENT EFFECT: No known presurgical therapy.

LYMPH-VASCULAR INVASION: Not identified.

PATHOLOGIC STAGING: PRIMARY TUMOR: mpT1c. REGIONAL LYMPH NODES: pN0(sn).

ADDITIONAL PATHOLOGIC FINDINGS: Extensive proliferative fibrocystic changes with atypical ductal hyperplasia.

Carlene A. Hawksley, M.D., Medical Director

M. Quinn Wickham, M.D.

Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607 Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603. Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326

برم
APMG Associated Pathology Medical Group, Inc.

PATIENT IN	FORMATION		PHYSICIAN INFORMATION Sutter Maternity and Surgery Center Sutter Maternity & Surgery Center 2900 Chanticleer Avenue Santa Cruz, CA 95065
		SPECIME	
Collected:	01/31/2020		
Received:	02/03/2020	10:24 am	
Reported:	02/07/2020	3:20 pm	

Referring Physician: DeSimone, Christopher Copies sent to: Sutter Maternity and Surgery Center

SURGICAL PATHOLOGY REPORT

ANCILLARY STUDIES (PERFORMED ON PRIOR CORE BIOPSY P20-39):

BREAST BIOMARKER RESULTS:

ESTROGEN RECEPTOR (ER): Positive.

PERCENTAGE OF TUMOR NUCLEI STAINING: 100%.

AVERAGE INTENSITY OF STAINING: Strong.

INTERNAL CONTROLS PRESENT AND STAINING APPROPRIATELY: Yes.

COMMENT: The ductal carcinoma in situ present on this slide also shows strong nuclear staining of 100% of the neoplastic cells.

PROGESTERONE RECEPTOR (PgR): Positive.

PERCENTAGE OF TUMOR NUCLEI STAINING: 100%.

AVERAGE INTENSITY OF STAINING: Strong.

INTERNAL CONTROLS PRESENT AND STAINING APPROPRIATELY: Yes.

COMMENT: The ductal carcinoma in situ present on this slide demonstrates strong nuclear staining of 100% of the neoplastic cells.

HER2 (BY IMMUNOHISTOCHEMISTRY): Negative at 0.

HER2 (BY IN SITU HYBRIDIZATION): Negative.

USING DUAL PROBE ASSAY

AVERAGE NUMBER OF HER2 COPY SIGNALS PER NUCLEUS: 2.3. AVERAGE NUMBER OF CEN17 COPY SIGNALS PER NUCLEUS: 2.2. HER2/CEN17 RATIO: 1.0.

INVASIVE TUMOR NUCLEI SCORED: 50.

COLD ISCHEMIA AND FIXATION TIMES MEET THE REQUIREMENTS SPECIFIED IN THE LATEST VERSION OF THE ASCO/CAP GUIDELINES (Cold ischemia time < 1 hour: fixation time 6-72 hours): Yes. Fixation time: 8-10 hrs

METHODS

FIXATIVE: Formalin.

ESTROGEN RECEPTOR: FOOD AND DRUG ADMINISTRATION (FDA) CLEARED (SPECIFY TEST/VENDOR): Dako.

> Carlene A. Hawksley, M.D., Medical Director M. Quinn Wickham, M.D.

Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607 Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603. Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326



PATIENT INF	ORMATION		S.	PHYSICIAN INFORMATION Sutter Maternity and Surgery Center Sutter Maternity & Surgery Center 2900 Chanticleer Avenue Santa Cruz, CA 95065
		SPECIME	Z	INFORMATION
Collected:	01/31/2020			
Received:	02/03/2020	10:24 am		
Reported:	02/07/2020	3:20 pm		

Referring Physician: DeSimone, Christopher Copies sent to: Sutter Maternity and Surgery Center

SURGICAL PATHOLOGY REPORT

PRIMARY ANTIBODY: EP1

PROGESTERONE RECEPTOR:

FDA CLEARED TEST/VENDOR: Dako PRIMARY ANTIBODY: PgR 636

These tests were performed on formalin fixed paraffin embedded tissue using IHC. The performance characteristics of the above tests have been determined by APMG. While some antibodies have not been approved by the FDA, clearance/approval is not mandated. These antibodies are well documented and clinically accepted prognostic indicators. These tests should not be regarded as part of research investigations. Known positive and negative control tissues show appropriate staining. Visualization for ER and PR is EnVision Flex+, High-pH (Link); and for HercepTest is dextran polymer conjugated HP and affinity isolated goat anti-rabbit IG, followed by DAB chromogen. These results should be used in the context of clinical/pathologic findings.

COMMENT:

The HER2 studies by IHC and FISH were performed by NeoGenomics reference laboratory. Please see their report (accession #2511012) for additional information regarding methodology.

COMMENT: The invasive mucinous carcinoma present in this case is essentially identical to the small focus of invasive mucinous carcinoma seen in the prior biopsies on which the above studies were performed. The estrogen and progesterone receptor staining was quite intense and diffuse and it does not appear to be necessary to repeat those stains on the current material. Nevertheless, given the small focus of invasive carcinoma present in the prior biopsy for HER2 testing, we will repeat HER2 studies performed by NeoGenomics reference laboratory on paraffin block 2C.

I have reviewed the quality of any H&E staining on this case and it is acceptable.

PATHOLOGIST: Carlene A. Hawksley, M.D.

Carlie Q. Aanholps

SPECIMEN TYPE/LOCATION:

- 1. Lymph node, right axillary sentinel
- 2. Breast, right

Carlene A. Hawksley, M.D., Medical Director

SPECIMEN DATA

M. Quinn Wickham, M.D.

Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607 Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603. Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326

	PATIENT IN	FORMATION		PHYSICIAN INFORMATION Sutter Maternity and Surgery Center Sutter Maternity & Surgery Center 2900 Chanticleer Avenue Santa Cruz, CA 95065
			SPECIME	IN INFORMATION
	Collected:	01/31/2020		
APMG	Received:	02/03/2020	10:24 am	
ssociated Pathology Medical Group, Inc.	Reported:	02/07/2020	3:20 pm	

Copies sent to: Sutter Maternity and Surgery Center

SURGICAL PATHOLOGY REPORT

GROSS DESCRIPTION:

- Received are two containers labeled with the patient's name 'Winthers, Laurie'. The first specimen is received in a single formalin-filled container additionally labeled 'right axillary sentinel lymph node' and consists of a 1.2 x 0.9 x 0.9 cm tan-yellow lymph node candidate that is serially sectioned and submitted entirely in one cassette.
- 2. The second specimen is received in a single formalin-filled container additionally labeled 'right breast mastectomy short stitch superior, long lateral, double deep' and consists of an oriented 46.6 gram lumpectomy specimen that measures 6.6 cm superior to inferior, 6.1 cm medial to lateral, 3.1 cm from superficial to deep (short suture superior, long suture lateral, double suture deep). A needle localization wire extends from the superficial aspect of the specimen. The specimen is inked as follows: superior blue, inferior - green, lateral - yellow, medial - violet, superficial - orange and deep - black. The specimen is serially sectioned from superior to inferior into 13 slices (slice 1 - superior margin, slice 13 inferior margin) to show a 1.7 x 1.6 x 1.2 cm ill-defined yellow chalky indurated lesion within slices 8-11, 0.1 cm from deep, 0.8 cm from superficial, 1.8 cm from inferior, 1.9 cm from lateral and greater than 2.0 cm from superior. No biopsy clip is identified (the history says the patient declined her clip). The remaining parenchyma is greater than 95% yellow lobulated adipose tissue and less than 5% dense white fibrous tissue. No additional mass lesions are identified. Representative sections are submitted (the lesion is submitted entirely) as follows: 2A - superior margin perpendicularly sectioned, 2B-D slice 6 trisected, 2E - representative slice 7 adjacent to lesion, 2F&G - representative slice 8 lesion, 2H-K - slice 9 entirely composite with lesion, 2L&M - representative slice 10 lesion, 2N - representative slice 11 lesion, 2O -representative slice 12 adjacent to lesion, 2P - inferior margin perpendicularly sectioned.

NL:km

Carlene A. Hawksley, M.D., Medical Director M. Quinn Wickham, M.D. Dominican Hospital, Associated Pathology Medical Group, Inc, 1555 Soquel Drive, Santa Cruz, CA 95065 (831)462-7625 FAX (831)462-7607 Frozen section slides processed at 1555 Soquel Dr. Santa Cruz, CA 95065, CLIA cert. #05D0606603. Permanent slides processed at APMG, 105A Cooper Ct. Los Gatos, CA 95032 (408)399-5050, CLIA cert. #05D0712326

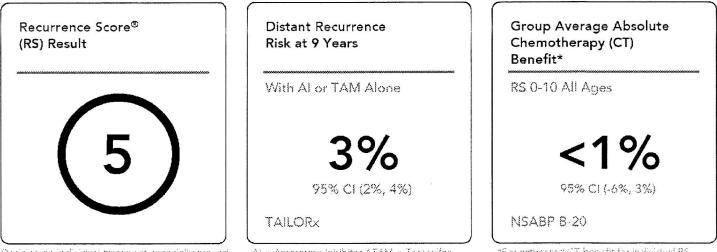
Senomic Health

oncotype DX* Breast Recurrence Score

Oncotype DX Breast Recurrence Score® Report

Node Negative





Decision on individual treatment especially around the RS 25 cutoff may consider other clinical factors.

Al – Aromatasa Inhibitor / TAM – Tamoxifen CI – Confidence Intervals *For estimated CT benefit for individual RS results, see page 2.

Exploratory Subgroup Analysis for TAILORx and NSABP B-20: Absolute CT Benefit for Distant Recurrence by Age and RS Result

Age	RS 0-10	RS 11-15	RS 16-20	RS 21-25	RS 26-100
>50 years		No CT Benefit (<1%)			
≤50 years	No CT Ber	nefit (<1%)	~1.6% CT Benefit	∼6.5% CT Benefit	>15% CT Benefit

Quantitative Single-Gene Scores

10.5 ER Positive		9.7 PR Positive		•	8.5 HER2 Negative	
<3.7 6.5	≥12.5	<3.2	5.5	≳10.0	<7.6	10.7 11.5 ≿13.0

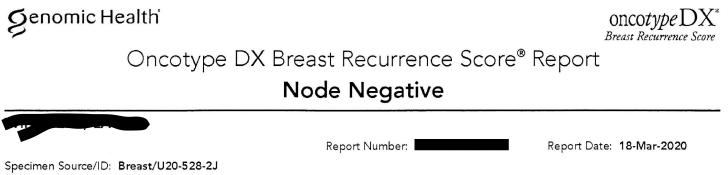
Laboratory Director(s): William P. Joseph, M.D.

Genomic Health, Inc., 301 Penobscot Drive, Redwood City, CA 94063, USA - CLIA Number 05D1018272

This test was developed and its performance characteristics determined by Genomic Health, Inc. It has not been cleared or approved by the FDA, nor is it currently required to be. The laboratory is regulated under CLIA as qualified to perform high-complexity testing. This test is used for clinical purposes. It should not be regarded as investigational or for research.

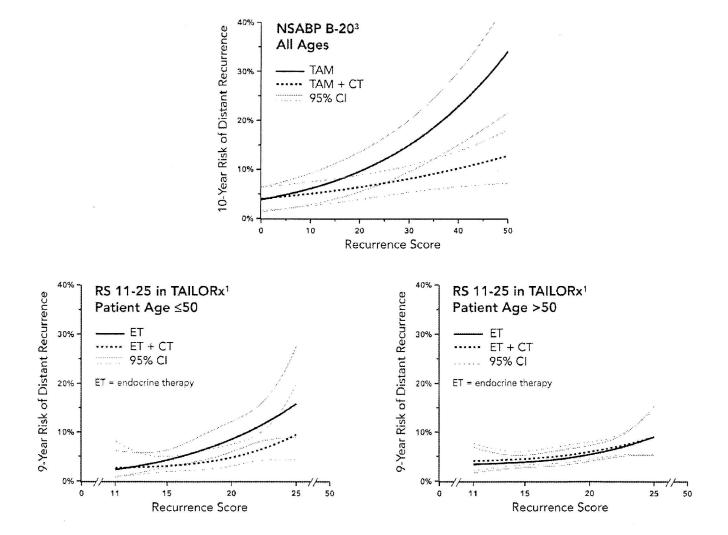
		Page 1 of 3
GHI004 Rev035	USA/Canada +1.866.ONCOTYPE (+1.866.662.6897)	www.oncotypeiq.com/contact

© 2004-2020 Genomic Health, Inc. All rights reserved. Genomic Health, Oncotype DX, Oncotype DX Breast Recurrence Score and Recurrence Score are trademarks of Genomic Health, Inc.



Ordering Physician: Dr. Glenn Donald Wong

Estimated Chemotherapy Benefit for Individual Recurrence Score Results



Recurrence Score ranges shown above reflect randomized patients in NSABP B-20 and TAILORx.

		Page 2 of 3
GHI004 Rev035	USA/Canada +1.866.ONCOTYPE (+1.866.662.6897)	www.oncotypeiq.com/contact
© 2004-2020 Genomic Health, Inc. All rig	nts reserved. Genomic Health, Oncotype DX, Oncotype DX Breast Recurrence Score and Recurrence	Score are trademarks of Genomic Health, Inc.

PAGE 3/4 * RCVD AT 3/23/2020 10:10:34 AM [Pacific Daylight Time] * SVR:DCPWRDT004/3 * DNIS:8316847703 * CSID:faxservice@genomiche * ANI:+14702439132 * DURATION (mm-ss)

Senomic Health



Oncotype DX Breast Recurrence Score® Report

Node Negative

	Report Number:	Report Date: 18-Mar-2020
Specimen Source/ID: Breast/U20-528-2J		
Ordering Physician: Dr. Glenn Donald Wong		
Medical Record/Patient #:		
Date of Collection: 31-Jan-2020		

Specimen Received: 17-Feb-2020

The Oncotype DX Breast Recurrence Score test uses RT-PCR to determine the expression of a panel of 21 genes (16 cancer-related, 5 reference) in tumor tissue.

The Oncotype DX Breast Recurrence Score test uses RT-PCR to provide prognostic and predictive information to guide the systemic treatment decisions with hormonal therapy and/or chemotherapy for patients diagnosed with ER+, HER2- invasive breast cancer. Decisions on treatment should also be based on independent medical judgment of the treating physician taking into consideration all available information concerning the patient's medical condition, including other pathological tests, in accordance with your communities' standard of care.

The Recurrence Score (RS) Result, which ranges from 0-100, is calculated from the quantitative RT-PCR analysis of the 21 genes.

The **Distant Recurrence Risk** at 9 Years (Prognosis), in patients with N-, ER+ breast cancer treated with endocrine therapy alone, is provided by the TAILORx¹ trial for RS 0-25 and by the NSABP B-14² trial for RS 26-100. Risk is for individual RS results. The 95% confidence intervals for distant recurrence at 9 years are $\pm 2\%$ or less for RS 0-22, and range from $\pm 3\%$ to $\pm 11\%$ as RS increases from 23-50. The TAILORx trial enrolled 10,273 patients and 5,018 patients with RS 0-25 were treated with endocrine therapy (tamoxifen or an aromatase inhibitor) alone. The NSABP B-14 trial enrolled 668 patients who were treated with tamoxifen alone.

The **Absolute Benefit of Chemotherapy** for all ages is provided by the TAILORx trial for RS 11-25 and by the NSABP B-20³ trial for RS 0-10 and RS 26-100. Results for the reduction in distant recurrence at 9 years are for the TAILORx-defined RS groups 0-10, 11-25, and 26-100. TAILORx trial enrolled 10,273 patients and 6,711 were randomized to endocrine therapy (tamoxifen or an aromatase inhibitor) alone or endocrine therapy plus chemotherapy (including anthracyclines and/or taxanes). The NSABP B-20 clinical trial enrolled 651 patients who were randomized to treatment with tamoxifen alone or tamoxifen plus CMF/MF chemotherapy. The magnitude of the absolute benefit of chemotherapy was ~6% at RS 26, and increased as the RS results increased from 26-100, with an average absolute benefit of ~24% and a conservative group estimate of >15% based on the width of the confidence intervals.

Exploratory Subgroup Analysis for TAILORx and NSABP B-20 indicate that RS and age are the strongest predictors of chemotherapy benefit. The absolute reduction of distant recurrence from chemotherapy for patients >50 years and ≤50 years is shown here for RS groups: 11-15, 16-20, and 21-25 from TAILORx, and 0-10 and 26-100 from NSABP B-20.

Quantitative Single-Gene Scores for quality control. The Oncotype DX test uses quantitative RT-PCR to determine the RNA expression of ER, PR, and HER2, using the published validated cut-offs⁴. The standard deviations of single-gene results are less than 0.5 units. The RT-PCR single-gene results may differ from ER, PR, or HER2 results reported using other methods or reported by other laboratories.

References:

1. Sparano et al. N Engl J Med. 2018.; ECOG and Genomic Health (data on file). 2. Paik et al. N Engl J Med. 2004. 3. Paik et al. J Clin Oncol. 2006.; Sparano and Paik J Clin Oncol. 2008. 4. Badve et al. J Clin Oncol. 2008.; Baehner et al. J Clin Oncol. 2010.

Join other breast cancer patients to learn about genomics and help transform patient care: MyOncotype.com

GHI004 Rev035

USA/Canada +1.866.ONCOTYPE (+1.866.662.6897)

Page 3 of 3 ww.oncotypeiq.com/contact

© 2004-2020 Genomic Health, Inc. All rights reserved. Genomic Health, Oncotype DX, Oncotype DX Breast Recurrence Score and Recurrence Score are trademarks of Genomic Health, Inc.

PAGE 4/4 * RCVD AT 3/23/2020 10:10:34 AM [Pacific Daylight Time] * SVR:DCPWRDT004/3 * DNIS:8316847703 * CSID:faxservice@genomiche * ANI:+14702439132 * DURATION (mm-ss)



CASE STUDY SUBMISSION

Important: In observance of HIPAA and the sacred trust between care giver and patient, absolutely no patient names or identifying information is to be disclosed. Patient privacy is to be preserved. If you attach any medical records, pathology, surgical or laboratory reports, all names are to be removed.

Date	
Clinician Name & Credentials	
Email	

Describe Your Patient (Please SUMMARIZE and use economy of words. You will have 15 minutes to present)

Age, Gender & Ethnicity	
Body Type	
Values	
What is most important to this patient? (Quality of Life, Decision Making, Side Effects?)	
Stress Resilience	
Other	
Primary Diagnosis & Date	
(ex. Breast Cancer L, T3 N1 M0, BRCA1 positive, grade 3, Ki67 > 45%)	
Secondary Diagnosis	
(ex. Diabetes Type 2, Obesity)	

Patient Status

New Diagnosis	□ Recurrence	In Treatment	□ In Recovery	□ In Remission	□ At Risk
Concomitant and/or Complicating Factor	S				
(ex: poorly controlled insomnia, poor suppo					
Adverse Effects of C Cancer Treatments (ex. anxiety-depression diarrhea, peripheral no	on,				
Relevant Laboratory Pathology & Medical					
(attach a PDF with pa identifying information or summarize)					



American Institute of Integrative Oncology RESEARCH & EDUCATION

Brief Summary of Additional Relevant Health, Medical, Psycho-Social and/or Family History

Other Relevant Information

Such as Chinese or Ayurvedic diagnosis, Naturopathic/Homeopathic Information, etc. (ex. Liver Qi Stagnation, Dysbiosis)

Brief Summary of Relevant Past Oncology or Medical Treatments

(ex. surgery, radiotherapy, chemotherapy, immunotherapy, hormone therapy, drug therapy)

Summary of Recent and Current Treatments

Medical Oncology Care (surgery, radiotherapy, chemotherapy, immunotherapy, hormone therapy, drug therapy)

Integrative Oncology Care (nutraceutical, botanical, phytochemical, acupuncture, energy medicine, other)

Your 2 Core Questions (stated clearly and succinctly)

1.

2.

Attached Medical Records for Reference (with patient identifying information removed)

PROPOSED TREATMENT PLAN Your case will not be reviewed without a completed proposed treatment plan

Nutriceutical, Phytochemical and Botanical Supplements (name of supplement, dosing) Foundation Nutrition Supplements:
Targeted Supplements:
Functional Foods and/or Therapeutic Shake
Dietary Guidelines
Lifestyle Guidelines
Recommended Diagnostics
Referrals to specialists

Other Notes (please do not include additional notes in your email - notate them here within the case study)





www.aiiore.com

DR. NALINI CHILKOV INTEGRATIVE ONCOLOGY PROFESSIONAL TRAINING PROGRAM

Reviewed by Dr. Chilkov 04.15.2020. Case Study: 21 y/o M Hodgkin's Lymphoma Stage II Submitted by: Susie Thomson Date Submitted: 03/31/2020

Dr. Chilkov Response:
Overview:
 Primary Diagnosis: 21 y/o M Hodgkin's Lymphoma Stage II With a 21 yo patient you have an opportunity to help him to grow up, and get some wisdom and compassion from this experience, to help him to cope and to understand how to use this as a transformational experience
Adverse Effects of Cancer or Cancer Treatments: (see my notes below) - ltch, - Skin redness, - Nausea, - Headache, - Tummy ache, - Fatigue, - Loss of appetite, gum/mouth sores, lightheaded, persistent and localised aches
- <u>Manage Side Effects</u> → WATCH FOR HYPERCOAGULATION (D Dimer, Fibrinogen) <u>On day 6 of each chemo cycle add these supplements Stop the day before the next infusion</u>
 DFH Detox Anti-Ox 2/3x/day Milk Thistle Extract (HERBPHARM) 1 teaspoon twice daily
 Daily L-Glutamine 1 level teaspoon 3x/day Astragalus Extract (HERBPHARM) 1 teaspoon twice daily Health Concerns Marrow Plus 3/2x/day
If neuropathy ➤ Add Daily Acetyl L Carnitine 1000mg 2x/day ➤ Bone Broth 2-4 cups daily



American Institute of Integrative Oncology

RESEARCH & EDUCATION

www.aiiore.com

DR. NALINI CHILKOV INTEGRATIVE ONCOLOGY PROFESSIONAL TRAINING PROGRAM

Relevant Laboratory, Pathology & Medical Reports -

➤ See Below

Additional Relevant Health or Family History:

- Recurrence of colds, Sore throats,
- Swine flu during childhood.

Current Treatment:

- Chemotherapy, BEACOPP bleomycin, etoposide, doxorubicin, cyclophosphamide, vincristine, procarbazine [Matulane], prednisone
 - This is a very toxic treatment but has a 91% survival rate and this patient is young and should be resilient

CORE QUESTION:

- 1. How to supplement during treatment without compromising chemotherapy effect OR How to persuade the doctors that supplements won't interfere with treatment?
 - a. You can never PERSUADE another doctor that supplements won't interfere. You CAN build a relationship of mutual respect and trust over time. It is up to the patient to build his own team and make his own informed decisions.
 - With a complex chemo-cocktail there are many drug-herb and drug nutrient interactions to be concerned about. Stick with FOUNDATION NUTRIENTS and manage adverse effects with Functional foods and tonic herbs (food like) during chemotherapy
- 2. How to maintain white cells level?
 - a. Astragalus Root extract concurrently 1 teaspoon twice daily
 - b. Ganoderma (Ling Zhi, Reishi) 3 grams daily
- 3. Is alcohol allowed in between treatments (Patient asking, I have explained it is better to avoid all toxins).
 - a. Absolutely NOT. This is a very hepatotoxic treatment. Alcohol is hepatotoxic Alcohol is a carcinogen. He is 21 years old. He needs to think LONG TERM about his lifestyle habits such as alcohol.

Dr. Chilkov Recommendation:

DAILY FOUNDATION NUTRIENTS can be taken concurrently with CHEMOTHERAPY

- ITI Prothriver Wellness Multi 1/2x/day
- DFH Vitamin D Supreme (start with 1 cap daily, measure blood levels and adjust)
- Klaire Therbiotic Complete 1/2x/day
- DFH Buffered Magnesium Chelate (glycinate) 2/2x/day



American Institute of Integrative Oncology RESEARCH & EDUCATION

www.aijore.com

DR. NALINI CHILKOV INTEGRATIVE ONCOLOGY PROFESSIONAL TRAINING PROGRAM

Å	DFH Omegavail TG 1000 1/2x/day
Disco	ontinue these supplements during chemotherapy
	Curcumin
	Resveratrol
	Green Tea
	Fucoidan
	Quercetin
When	he completes his chemotherapy, then he will need a recovery-repair plan and a LONG
	I PLAN for a healthy long life.



Grupo quironsalud

C/ Balmes, 271, 08006 BARCELONA Tfno: 932 36 05 00 http://www.clinicadelpilar.org/

> INFORME DE ALTA DE HOSPITALIZACIÓN

Motivo Alta:

TO WHOM IT MAY CONCERN

REASON FOR CONSULTATION : fever

BACKGROUND Allergies: No and other pathologies.

CURRENT DISEASE : 21-year-old man who refers to the influenza process started two weeks ago that presented improvement 1 week ago, for the current date he presents rhinorrhea and fever 38.7, a week in bed, today chills and discomfort, myalgia. Patient refers relapse of their symptoms after an asymptomatic week.

Entrance to Internal Medicine: Work on a sailboat as a staff. Referring from November 2019 progressive tiredness, weakness that needs rest (nap) for 20 minutes and recovers. Refer mild epistaxis on 12-2-20 and remember 3 times for 3 months. Referred to as a recent family history his father was diagnosed with Myasthenia ?. He had as treatment fluids, paracetamol and levofloxacino.

PHYSICAL EXPLORATION on admission to the emergency room.- Constant on admission: TA: 119/59; FC: 102; T I: 37.9; Sat O2: 100; EVA: 2; - General state: conscious, oriented, collaborative. Well nourished and hydrated. - Head and neck: normal. - Normal pulses. - Scan of t煮ax: rhythmic tones. Do not blow or rub. - Pulmonary auscultation: Eupneic, normal vesicular murmur.

SUPPLEMENTARY TESTS -

Analytical 10-2-20: leucocytes 9.6 segmented 83.3, absolute neutrophils 8.0 PCR 2.5. - Influenza A by Negative PCR. Influenza B by Negative PCR (ESR) Red blood cells 5.6 x 10 ^ 6 μ l (4.3 - 5.9) Hemoglobin 13.6 g / dl (13 - 17) Hematocrit 44% (40 - 54) Mean corpuscular volume (MCV) 79 fl (80 - 100) * Average corpuscular hemoglobin (HCM) 24 pg (26 - 34) Hemoglobin concentration 31 g / dl (32 - 36) * Corpuscular Average (CHCM) Erythrocyte distribution width 16% (11 - 16) (RDW) Leukocytes 9.6 x 10³ μ l (3.5 - 11)% segmented 83.8% (45 - 75) *% lymphocytes 9.1% (20 - 45) *% monocytes 6.6% (2 - 10)% eosinophils 0.4% (0 - 6)% basophils 0.1% (0 - 2) Neutrophils (V. Absolute) 8.0 x 10³ μ l (1.6 - 7.5) * Lymphocytes (V. Absolute) 0.9 x 10³ μ l (0.9 - 3.4) Monocytes (V. Absolute) 0.6 x 10³ μ l (0.0 - 1.2) Eosinophils (V. Absolute) 0.0 x 10³ μ l (0.0 - 0.6) Basophils (V. Absolute) 0.0 x 10³ μ l (0.0 - 0.3) Platelets 384 x 10³ μ l (150 - 450) D-dimer 314 ng / mL (Inf. 255) Serum glucose 107 mg / dl (74 - 109) Serum creatinine 0.73 mg / dl (0.70 - 1.20) Glomerular filtration rate (CKD-EPI) 132 ml / min Serum sodium 136 mmol / l (137 - 145) * Serum potassium 4.5 mmol / l (3.5 - 5.1)

12-2-20: Serum C reactive protein 2.5 mg / dL (Inf. 0.5) * 60 pg / mL NT-proBNP <300 ng / LT Prothrombin time 15 sg Quick 92% index (70 - 130) INR 1.05 (0.80 - 1.20) Plasma fibrinogen 5.7 g / L (1.70 - 5.0) partial thromboplastin time 30 sg (22 - 38) activated (TTPA) TTP Ratio 1.0 (Inf. 1.3) Serum glucose 97 mg / dl (74 - 109) Uric acid serum 4.8 mg / dl (3.4 - 7.0) Serum albumin 3.9 g / dl (3.5 - 5.2) Sodium serum 139 mmol / I (137 - 145) Potassium serum

El PORTAL DEL PACIENTE es un espacio personal desde el que se podrá acceder a la Información Clínica y a los diferentes Servicios del Hospital de manera online, sin necesidad de desplazamientos. En este espacio personal el paciente podrá consultar sus citas pendientes o modificarlas, consultar los resultados de pruebas diagnósticas o acceder a sus informes. https://www.guironsalud.es/pilar

Responsable del Tratamiento: IDCQ HOSPITALES Y SANIDAD S.L.U. con domicilio social en Calle Zurbarán 28, Madrid (28010). Datos de contacto DPO: DPO@quironsalud.es. Finalidad del tratamiento: asistencia sanitaria. Destinatarios: en su caso, entidad aseguradora del paciente. Derechos: Podrá ejercer los derechos de acceso, rectificación, supresión, oposición, portabilidad y limitación del tratamiento, como se explica en la información adicional. Procedencia: propio interesado. Información adicional: <u>https://www.quironsalud.es/es/politica-proteccion-datos</u>

Grupo Vquironsalud	Nº Historia Clínica: 2020006089 COOF F.Nac Domic	
Tfno: 932 36 05 00 http://www.clinicadelpilar.org/	Teléfo Fecha Fecha Servic Garan	

4.7 mmol / I (3.5 - 5.1) AST (GOT) serum 27 U / L (Inf. 40) ALT (GPT) serum 48 U / L (Inf. 41) * Alkaline phosphatase serum 100 U / L (40 - 129) Gamma-GT serum 55 U / L (10 - 71) Iron serum 27 µg / dl (33 - 193) * Serum ferritin 329 ng / ml (18 - 464) Serum transferrin 201 mg / dl (206 - 381) * Saturation rate of 11% (20 - 40) * serum transferrin TSS serum 2.21 µUI / ml (0.270-4.20) (34) Serum C reactive protein 3.3 mg / dL (Inf. 0.5) ** Ac. nmol / L Acetylcholine Receptors (Inf. 0.20) (serum * R. Pending, Normal TSH.

IMAGES:

RX TORAX: mediastinal widening in the anterior and upper middle mediastinum.

TORAX TAC: Left anterosuperior mediastinal lesion, voluminous hypodense lesion with mild contralateral involvement, intimate contact with pericardium and anterior parietal pleura, without costal involvement is identified. It is associated with superior paratracheal adenopathy (12mm), prevascualr (18mm) opsilateral hilar (12.5mm), infracarinal (13-18.5mm) and isolated periesophageal proximal to the diaphragmatic hiatus (9mm). It suggests thymoma as the first possibility, associated mediastinal adenopathies

TORAX NMR: no medical report available but CD with images is given

DIAGNOSTICS

1) FEBRILE SYNDROME (NO INFLUENZA)

2) TIMOMA vs LYMPHOMA

Patient decides to be evaluated in his country of origin in France. He leaves the hospital in good condition with all his exams and images,.

OVIC

Dra. IMPERIA BRA ra. IMPERIA BRANN ra. IMPERIA BRANN col.legiat. 57522 Fab: BRAJKOVIC -, IMPERIA ELIZABETH Nº Colegiado: 57522 Servicio de MEDICINA INTERNA - H

El PORTAL DEL PACIENTE es un espacio personal desde el que se podrá acceder a la Información Clínica y a los diferentes Servicios del Hospital de manera on-El PORTAE DEL FACIENTE Consultar los resultados de personal el paciente podrá consultar sus citas pendientes o modificarlas, consultar los resultados de pruebas diagnósticas o acceder a sus informes. https://www.quironsalud.es/pilar

Responsable del Tratamiento: IDCQ HOSPITALES Y SANIDAD S.L.U. con domicilio social en Calle Zurbarán 28, Madrid (28010). Datos de contacto DPO: DPO@quironsalud.es. Finalidad del tratamiento: asistencia sanitaria. Destinatarios: en su caso, entidad aseguradora del paciente. Derechos: Podrá ejercer las derechos de acceso, rectificación, supresión, oposición, portabilidad y limitación del tratamiento, como se explica en la información adicional. Procedencia: propio interesado. Información adicional: https://www.auironsalud.es/cs/politica-proteccion-datos



Grupe Q'quironsals

Balmes, 271 - 08006 - Barcelona - 9	3 236 05 00 - radiologia.cpilar@qu	ironsalud.es	
		N	
	НЕР.20200030750	Fecha Realización 10/02/2020 14:47	Fecha Informe 10/02/2020

Centro solicitante

MOTIVO

sindrome febril joven de 21a que trabaja en barcos. silueta mediastínica ensanchada, neutrofilia 8.000. Torax

INFORME

TECNICA:

Se realizan cortes axiales desde apex pulmonares hasta suprarrenales tras la administracion de contraste IV

HALLAZGOS:

Estructuras mediastínicas centradas. A nivel de mediastino anterosuperior izquierdo, se identifica voluminosa lesion hipodensa con leve afectacion contralateral y aparece en intimo contacto con pericardio posteriomente y con la pleura parietal anteriormente, sin afectacion costal ni de las partes blandas. No se identifican calcificaciones ni areas grasas (descartaria teratoma) ni necroticas/quisticas.Presenta unas dimensiones aprox. 52 x 78 x 82mm

Se asocia a adenopatias mediasticnicas a nivel paratraqueal superior (12mm) prevasculares (18mm), hiliares ipsilaterales (11-12.5mm) e infracarinales (13-18.5mm)

Aislada periesofagica proximal al hiato diafragmatico (9mm)

Hilios pulmonares de tamaño y morfología normal.

Parenquimas pulmonares sin alteraciones significativas.

Espacio pleural libre.

Pared torácica sin alteraciones valorables.

En los cortes axiales de hemiabdomen superior, se observa parénquima hepatico homogéneo.

Suprarrenales de tamaño y morfologia normal.

Nodulillo esplenico accesorio.

CONCLUSIONES:

Lesion mediastinica anterosuperior, que dado su comportamiento, sugeriría Timoma como primera posibilidad. Adenopatias mediastinicas asociadas.

> Firmado: YOLANDA ROCA VANACLOCHA Núm. Colegiado: 34002

Centre Hospitalier Universitalre de Nice UNIVERSITÉ CÔTE D'AZUR

Praticiens Hospitaliers

Docteur Michèle Benhayoun benhayoun.m@chu-nice.fr

Docteur Sylvie Leroy leroy.s2@chu-nice.fr

Docteur Fernand Macone macone.f@chu-nice.fr

Docteur Cécilia Noghi ichimnoghi.c@chu-nice.fr

Docteur Michel Poudenx poudenx.m@chu-nice.fr

Docteur Johana Pradelli pradelli.j@chu-nice.fr

Docteur Céline Sanfiorenzo sanfiorenzo.c@chu-nice.fr

Chefs de Clinique et Assistant Docteur Linda Bouhlel bouhlel.l@chu-nice.fr

Docteur Virginie Joubert joubert.v@chu-nice.fr

Recherche Clinique

PÔLE CŒUR – VAISSEAUX – THORAX – POUMON –REIN Chef de Pôle : Pr Reda Hassen-Khodja Cadres supérieurs : Mme Dominique Plasson – Mr Raphael Ortega SERVICE DE PNEUMOLOGIE, ONCOLOGIE THORACIQUE ALLERGOLOGIE ET SOINS INTENSIFS RESPIRATOIRES

Chef de Service : Professeur Charles-Hugo Marquette <u>marquette c@chu-nice fr</u> Tel : 04 92 03 88 83

Nice, le 5 mars 2020

3/1998, a été hospitalisé du 24/02/2020 au

Ponction transthoracique sous scanner d'une masse médiastinale antérieure d'allure ganglionnaie.

A noter que les margueurs hormonaux des tumeurs germinales sont négatifs.

Cette ponction a été réalisée dans le but

Zd'assurer le diagnostic histologique

d'effectuer l'analyse biologique moléculaire

de mettre en place un clip fiduciaire

Mode de vie et facteurs de risques

Tabagisme : NON Exposition professionnelle à l'amiante : NON

ATCDts et comorbidités

Aucun

Clinique

	ominguo		
	Poids (kg)	taille (m.cm)	IMC
Ì	64	1,71	22

Amaigrissement de 0 kg au cours des 6 derniers mois

Performance Status (OMS) : 0

0 personne normale - activité physique intacte - efforts possibles sans limitation

1 réduction des efforts – autonomie complète

2 autonome – se fatigue facilement – nécessité de se reposer (lit ou fauteuil) moins de la moitié des heures de veille.

3 personne dépendante – lever possible – nécessité de se reposer (lit ou fauteuil) plus de la moitié des heures de veille.

Docteur Jacques Boutros boutros.j@chu-nice.fr

Cadres de santé

AuréliePantalacci - Tel : 04.92.03.80.53 pantalacci.a@chu-nice.fr

Axelle Guillaud - Tel : 04.92.03.84.43 guillaud.a@chu-nice.fr

Cécile Rohaut - Tel : 04.92.03.80.60 rohaut.c@chu-nice.fr

Consultations

Pneumologie, Oncologie Thoracique, Allergologie, Sommeil, Tabacologie Tel : 04.92.03.77.67 - Fax : 04.92.03.89.94

Centre de Compétences pour la Mucoviscidose Tel : 04.92.03.76.16 - Fax : 04.92.03.88.20

Centre de Compétences pour les Maladies Pulmonaires Rares et

Centre de Compétences pour l'Hypertension Pulmonaire Tel : 04.92.03.85.80 - Fax : 04.92.03.88.20

Centre du Sommeil Tel : 04.92.03.80.59 - Fax : 04.92.03.80.42

Hôpital de Semaine Tel : 04.92.03.80.59 - Fax : 04.92.03.80.42

Hôpital de Jour Tel : 04.92.03.85.80 - Fax : 04.92.03.88.20

Hospitalisation conventionnelle Tel: 04.92.03.80.52 - Fax: 04.92.03.84.40

Soins Intensifs Respiratoires Tel: 04.92.03.80.57 4 dépendance totale - état quasi grabataire - totalement confiné au lit ou au fauteuil

Plainte fonctionnelle notable : Aucune. Eupnée en air ambiant avec SPO2 à 99 %, Pas de douleur thoracique, Pas de dysphonie, Murmure vésiculaire bilatéral et symétrique au retour de la ponction sous scanner.

Suites de la ponction

La ponction s'est déroulée sans complication immédiate La prise en charge a consisté en une surveillance. Les radiographies thoraciques de surveillance ne montrent pas de pneumothorax

CONCLUSION

Ponction sous scanner d'une masse médiastinale antérieure. Pas d'incident au cours et au décours de la procédure. Les radiographies de contrôle ne mettent pas en évidence de pneumothorax iatrogène.

Résultats de l'analyse anatomopathologique :

Conclusion:

Biopsies d'une masse médiastinale antérieure montrant un infiltrat lymphocytaire avec quelques polynucléaires éosinophiles associés au sein de vastes territoires de fibrose, sans territoire suspect de malignité dans la limite du matériel examiné. Si une suspicion clinique persiste, une analyse sur de nouveaux prélèvements est souhaitable.

PET-TDM ce jour : Hypermétabolisme intense de nombreuses adénopathies sus diaphragmatiques évoquant plutôt un lymphome de haut grade ; à confronter aux données histologiques.

Patient porteur de BMR ou BHRe : NON Patient transfusé au cours du séjour : NON Evènement indésirable : NON

Les éventuels résultats en attente seront transmis au(x) médecin(s) référent(s)

Suite à donner

le patient sera revu par son médecin référent le Pr MOUROUX le 27/02/2020 X

Je reste à votre disposition pour tout renseignement complémentaire et vous prie d'agréer, Cher Confrère, mes salutations très cordiales.

Docteur C. Noghi

J. Rousset

Médecin Responsable

Interne

"Courrier relu et validé électroniquement par le médecin signataire"

THE REAL PROPERTY IN THE REAL PROPERTY INTO THE REAL P

Hópital PASTEUR - Pavillon H - 30 Voie Romaine - CS 51069 - 06001 Nice Cedex 1

		and the second s							
Volt (B)	- ANNA	Poids (kg) : Surf. corp. (m²) : Ch	60,00 1,69 lambre li	Taille (cm) : Créat. (µmol/L) mplantable	DI/L)	170 Prot. : 62 Inclusi Prescr	Prot. : BEA Inclusion par : Prescrit le : 1	EACOPP re r: Dr BOSC 18/03/2020	
	19201			1. A.		Cur	Cure: 1 J	Jour 1	= 18/03/2020 (Cycle : 21j ; Trt : 15j)
			ok	okc1j1ibt					
Jour: 2 Date: 19/03/2020	and the second second	a series in	and the second second				ALL THE PARTY		
	Dose Protocolaire	Dose prescrite	Modalités Diluant Volume	Durée	Voie	Chrono	Heure	Visa	Commentaire
na cl iso spvc 100ml	100 mL	100 mL		30'	Ϋ́Ρ	В			Branchement
procarbazine cp	100 mg/m ²	150 mg			РО	Ю			
solupred 20mg cp orodisp	40 mg	40 mg		-	РО	HO			
metoclopramide 10mg/2ml inj	20 mg	20 mg		02'	IVD	H0 + 0h05			
etoposide	200 mg/m²	338 mg	NaCI 1000	in the second se	WP.	HQ + 01/30			
na cl iso spvc 50ml	50 mL	50-mL		15'	IVP	H0 + 1h30			
Jour 3 Date 20/03/2020 D.C.I. et Produits	Dose	Dose prescrite	Modalités Diluant Volume Durée	Durée	Voie	Chrono	Heure Visa réelle	Visa	18 13 1 19 19 19 19 19 19 19 19 19 19 19 19 1
na cl iso spvc 100ml	100 mL	100 mL		30'	IVP	Но			branchement
procarbazine cp	100 mg/m²	150 mg		-Transferrer	PO	HO			
solupred 20mg cp oradisp	40 mg	40 mg	u		РО	но			

UF: 7226

B5 - Medecine

Page: 217

Plateau Technique Saint-Jean 52-54, Avenue des Alpes - 06800 Cagnes sur mer Fax: 04 93 20 50 09

ologiste médical : Dr Zoubir Adjtoutah

CENTRE ANTOINE LACASSAGNE 36 AV DE VALOMBROSE

06189 NICE

 Prélevé le
 20.03.2020 à 06:39

 Chambre n°
 10
 Service
 7225

Enregistré le 20.03.2020 à 06:44

Carballiano

*** ACCUEIL LABO ***

HEMATOLOGIE

NUMERATION GLOBULAIRE

Variation d'impédance-Photométrie-Cytométrie de flux - DxH - BC

Hématies:	4 140 000) /mm3	4,6 à 6 200 000	4.010.000	Le 19.03.2020
Leucocytes:	7 300	/mm3	4 000 à 11 000	9.700	
Hemoglobine:	10,3	g/dL	13,0 à 18,0	10,0	
Hematocrite:	31,8		37,0 à 50,0	30,6	
CONSTANTES ERYTHROCYTAIR	ES				
Т.С.М.Н	24,9	pg/hem	27 à 32	24,9	
C.G.M.H	32,3	g/dL	31 à 36	32,6	
V.G.M	77	fL	79 à 97	76	
FORMULE LEUCOCYTAIRE					
P.N.neutrophiles:	5 770	/mm3	1 500 à 7 500	7.170	
soit :	79,1 4	Ratio		73,9	
P.N.eosinophiles:	90 /	mm3	0 à 600	50	
soit ;	1,3	1		0,5	
P.N.basophiles:	10 /	mm3	0 à 200	30	
soit ;	0,2	and the set		0,3	
Lymphocytes:	940	/mm3	1 100 à 4 400	1.460	
soit :	12,9			15,0	
Monocytes	470	mm 3	200 à 800	1.000	
soit :	6,5			10.3	

NUMERATION PLAQUETTAIRE

Impédance - DxH - Beckman Coulter

BOZIC STEPHANE

Dossier Médical du Patient

Prélevé le20.03.2020 à 06:39Prescrit parDocteur HEBERT CHRISTOPHEExamen n°0026Chambre n°7225

CENTRE ANTOINE LACASSAGNE

	ment	TOLOG		
Plaquettes VPM	291 000 8,2	/mm3 fL	150 à 400 000 7.4 à 10.4	305.000 Le 19.03.2020 8,1
C	OAGUL	ATION		
			Valeurs de référence	Antécédents
Taux de Prothrombine: I.N.R	88 1,0	8		86 Le 19.03.2020 1,0
Compris entre 70% et 100%				
TEMPS DE CEPHALINE-ACTIVA	TEUR			
Chronométrie / APTT - STAR Evo - Stago	34	And here		34
Temoin Patient	45	sec		45
Rapport Patient/Temoin.:	1,33	Sec	< 1,2	1,32
Taux de fibrinogène: Méthode de Clauss/ STA Liquid Fib-STAR Evo-Stago	7,0	g/L	2 à 4	6,4
E	BIOCHIM	UE SAN	GUINE	
		a	Valeurs de référence	Antécédents
SODIUM	138	mmol/L	136 à 146	138 Le 19.03.202
POTASSIUM	3,9	mmol/L	3,4 à 4,5	4,1
CHLORE	102	mmol/L	101 à 109	103
RESERVE ALCALINE	27	mmol/L	21 à 31	26
PROTIDES TOTAUX	68	g/L	66 à 83	67
Biuret - Gamme AU - Beckman Coulter				

BOZIC STEPHANE

Dossier Médical du Patient

Prélevé le 20.03.2020 à 06:39 Prescrit par Docteur HEBERT CHRISTOPHE Examen n° 0026 Chambre n° 7225 -10

CENTRE ANTOINE LACASSAGNE

BIOCHIMIE SANGUINE Antécédents Valeurs de référence CALCIUM....: 2,26 mmol/L Le 19.03.2020 2,20 à 2,65 2,23 Arsenazo III - Gamme AU - Beckman Coulter 90,4 mg/L 88 à 106 PHOSPHORE: 1,20 0,81 à 1,45 1,43 mmol/L mg/L Molybdate, UV - Gamme AU - Beckman Coulter 37.20 25 à 45 MAGNESIUM PLASMATIOUE..: 0,75 0,70 mmol/L 0,73 à 1,06 Bleu de Xylidyle - Gamme AU - Beckman Coulter 18.00 mg/L 18 à 26 UREE....: 3,4 2,8 à 7,2 4,0 mmol/L Uréase-GLDH - Gamme AU - Beckman Coulter 0,20 g/L 0,17 à 0,43 CREATININE 60 µmol/L 64 à 104 59 Enzymatique - Gamme AU - Beckman Coulter 6,8 mg/L 7,2 à 11,8

ESTIMATION DU DEBIT DE FILTRATION GLOMERULAIRE

MDRDs:	148 ml/min/1.73m ²	150
Une multiplication par un facteur 1.21 est nécessai	ire pour les patients originaires d'Afrique Sub-Saharienne o	u des Antilles.

INTERPRETATION

Patients sans pathologie rénale connue:

> ou = à 60: valeur normale pour un sujet sain sans autres signes biologiques ou clinique de maladie rénale < à 60: baisse du débit de filtration glomérulaire estimé ne permettant pas isolément d'affirmer une maladie rénale

CKD-EPI Estimation validée pour la population caucasienne	137	ml/min/1.		die renale
ACIDE URIQUE	<89	µmol/L	208,3 à 428,4	<89
TRANSAMINASE SGOT	13	UI/L	< 50	16
TRANSAMINASE SGPT:	11	UI/L	< 50	17

Þ

BOZIC STEPHANE



Dusaier Medical du Patient

CENTRE ANTOINE LACASSAGNE

a sement w	AND AND MARKE IN MICH OF	
Pressing par	DARIER HEBERT CHRISTOPHE	
I same nº	0026	
	7225 -10	

RIC	OCHIMI	ESANG	JUINE	
A REAL PROPERTY OF THE REAL PR			Waterson de colevenes	ANTER-SOLUTION
GAMMA=GT	36	83.75	* 55	27 is (8.29.2020
PHOSPHATASES ALCALINES . : HIC - Gamme AU - Rectange Conder	76	81.75	98 a 135	80
BILIRUBINE TOTALE	10.9	amol/A		8,9
(Dia 2010 (Constant)	8.8	#6/%	8 A 88	
BILIRUBINE DIRECTE	2,5	anad.03	* 2.4	B ₀ ®
DED -Kaamine (AL) - Reekanan Confiler	1.3	ang/%	* 4	the state of the second second
BILIRUBINE INDIRECTE 3	8,4	annia/là		8B
	4.9	49/3.		
LDH	183	102.75	* 248	873
PROTEINE-C-REACTIVE	141,7		**	LER, P
ALBUMINE	31,8 461	9/5 pesi/%	25 # 52	2.1

Consideration de la trainer en supre en al demons allebre é ser dansée des set élécteris set entretés belande les const t denomé des set et la trainer de la trainer de

design Contrallination Cities & scale - 1246 A version Annual Missians - 83130 (Mitroshys 785) 109 845 845 845 8 7010 4 405 BALGES NOR FOR A NO.

Riederginies on mapunosibies Anne Colors Britheness. Vincent Restored Broom Room - Bernard Roomware controllations &

Page 4/4



Lymphoma or lymphatic cancer

Overview

Lymphomas are a group of blood cancers which originate from lymphocytes (white blood cells of the immune system), the main types being Non-Hodgkin's (NHL) and Hodgkin's lymphoma plus many others.

Lymphomas are largely driven by environmental toxin exposure and not lifestyle; chemo and radiation for other disease can be a contributing factor as well as exposure to herbicides, pesticides and chemical pollutants. Glyphosate is a major concern for lymphoma risk.

Immune issues like HIV, hepatitis C, CMV, EBV can double the risk of lymphoma occurrence.

Obesity & high BMI can lead to worse outcomes for some kinds of lymphoma. Auto-immune conditions have been associated with a slightly higher risk of lymphoma.

Smoking, alcohol use and sedentary lifestyle increase chance of diagnosis as well as several genetic variants PLUS environmental toxin exposure.

Tri-cyclic anti-depressants have been found to contribute to NHL.

Usual treatment for lymphoma is chemotherapy and/or chemo + radiotherapy but could just be 'active' surveillance. Immunotherapy, proton-therapy and bone marrow transplantation are other options. Stem-cell treatment also an option. New vaccine looks promising.

During lymphoma, your immune system is compromised and you become more susceptible to infections.

Detoxification of heavy metals and healing any gut issues are of utmost importance in improving the outcome of lymphoma. Optimal gut function will help the immune system.

Diet Plan

Emphasize

- Whole foods unprocessed food in its natural form or as close as possible
- Brassicas: broccoli, cauliflower, kale, cabbage, Brussel sprouts, rocket for I3C & DIM
- Omega 3s from smaller oily fish: salmon, herring, anchovies, mackerel & sardines. Cod & tuna but no larger than the size of a salmon to avoid heavy metals. Wild caught or organic.

- High fiber from whole grains, beans, veggies and fruits
- Healthy fats: avocado, nuts, seeds, olive oil, coconut oil, hemp, flax, coldwater fish
- Low sugar, low carb foods: choose brown instead of white; rice, pasta, bread....
- Animal protein: choose organic poultry and fish over red meat. Meat should be grass-fed and organic and used as a 'condiment', ie a $\frac{1}{4}$ 1/3 of your plate, the rest being piled high with veggies of all colours.

Avoid

- Non-organic food; food treated with herbicides and pesticides
- Processed and grilled meats; red meat
- Fast foods, fried foods, baked goods, package foods, processed foods
- Sugar, fake sugar and artificial sweeteners* linked to lymphoma progression
- Vegetable oils corn, canola, sunflower, soy, safflower, shortening, margarine and anything hydrogenated or partially hydrogenated

Lifestyle

- Maintain a healthy weight
- Do not smoke (especially + hep C = x4 risk of NHL)
- Eat a low glycemic diet especially if you are pre or diabetic
- Exercise is well known to prevent cancer development MOVE!
- Mindfulness yoga, meditation, tai chi, CardioZen app, Headspace app.

Supplements

There are many said to help slow progression of cancer development and also to help efficacy of treatments while ameliorating the side-effects of treatment. Here are a few to consider to target lymphoma:

• Vitamin D: low levels are associated with shorter-term survival. Vitamin D deficiency is common in cancer and chemotherapy also lowers levels. It is important to have good levels of vitamin D for our immune system and also to fight cancer; several chemo drugs are found to be more effective at killing cancer cells when vitamin D is supplemented (inc. cisplatin). Good vitamin D levels are 50-80 ng/ml. 25-OH and 1,25 dihydroxy should both be measured. It is important to check levels regularly as a lymphoma

patient may have rapid conversion ie the blood levels may increase quickly and we want to avoid toxicity. Best advice is to start off with lower dose supplementation augmenting according to blood test results and getting up to 5000iu in remission for prevention (2000iu + daily depending on blood levels)

- Curcumin: high anti-cancer effects; particularly good evidence for Hodgkin's. Increases the sensitivity to cisplatin (200–400mg x3 daily)
- Resveratrol: inhibits EBV in Burkitt's and induces cell death in Hodgkin's (100–200mg daily)
- Green Tea (EGCG): 5 cups of green tea daily can reduce lymph cancers by 50% and in concomitant use with curcumin, can slow B-cell NHL.
- Indole-3-carbinol: found to increase cell death in adult T-cell lymphoma (200-400mg daily)
- DIM: significantly reduces T-cell acute lymphoblastic leukemia cells as well as reducing lymphoma tumors (250mg daily)
- Fucoidan: a seaweed extract which kills cancer cells especially B-cell lymphomas but may interact with certain chemo drugs.
- Forskolin: present in the root of an Indian plant has been seen to induce cell death of NHL.
- Quercetin: this flavonoid helps induce cell death in large B-cell lines and can enhance some chemo drugs eg rituximab (200–400mg daily)
- CoQ10: this antioxidant reduces cancer cell activity in Burkitt's and also found to have protective effects in various other cancers (100mg daily)

References

After cancer care (2015) Lemole G, Mehta P, McKee D.

https://www.canceractive.com/article/lymphoma-or%20lymphatic%20cancer%20symptoms%20causes%20and%20alternative%20treatments https://www.canceractive.com/article/lymphoma-or%20lymphatic%20cancer%20symptoms%20causes%20and%20alternative%20treatments Monitoring the microbiome in leukemia patients could reduce infections during chemotherapy by <u>American Society for Microbiology</u>

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4026755/

https://www.google.com/search?client=safari&rls=en&sxsrf=ALeKk00SbbkQUJagETyjqOt_6nryLQlj9w%3A1584201892313&ei=pABtXt3fEsmLlwTBtLiw Cw&q=vitamin+d+lymphoma+hodgkins&oq=vitamin+d+lymphoma+hodgkins&gs_l=psyab.3..0i22i30.17163.23764..25671...0.3..0.99.824.9.....0...1.gwswiz.....0i71.g725PKPWw4k&ved=0ahUKEwjdwaz4q5roAhXJxYUKHUEaDrYQ4dUDCAo&uact=5

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3941149/#

Atashrazm, F., Lowenthal, R. M., Woods, G. M., Holloway, A. F., & Dickinson, J. L. (2015). Fucoidan and cancer: a multifunctional molecule with antitumor potential. *Marine drugs*, 13(4), 2327–2346. https://doi.org/10.3390/md13042327

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6388987/#



INTEGRATIVE ONCOLOGY Professional Training Program CLINICIAN GUIDES

OutSmart Cancer Care Planner

History & Intake Form

CREATE AN ENVIRONMENT WHERE CANCER CANNOT THRIVE



American Institute of Integrative Oncology RESEARCH & EDUCATION

FOUNDER, DR. NALINI CHILKOV

OutSmart Cancer Care Planner: To Be Completed By Patient

Instructions: Please complete the sections below to the best of your knowledge. You may leave a section blank if you do not have the information requested.

General Information								
Patient Name:		Date of Birth:						
Cell Phone:		Email:						
Home Phone:								
Health Care Providers	(Names, Institution, Contact I	nfo)						
Primary Care Provider/								
Internist:								
Surgeon:								
Radiation Oncologist:								
Medical Oncologist:	Prof. Peyrade Frederic							
Integrative Cancer Care Coordinator:								
	Acupuncturist, Nutritionist, Natur	opathic Doctor, Phys	sical Therapis	st. Chiropractor, Urologist.				
Nurse Practitioner, Gyneco	•	opullio Dooloi, Phys						
Name	Specialty	Location		Phone				
Patient Values, Prioritie	es and Concerns							
What is most important to	o you?							
	0	-		re and help it diminish in size.				
Primary concerns and co The doctors have warned chemotherapy	re questions? I me against plant supplemer	nts as it could comp	promise the	effectiveness of				
Hopes and dreams?								
•	nd achieve set goals which h	ave now been temp	orarily shel	ved.				
Fears?								
	ing able to improve my physic	chal condition and	get to top fo	rm				
Sources of strength and	inspiration?							
My family, friends and my	-							
Sources of inner peace?								
My house, my bedroom								
Patient Primary Suppo	rt Network (Family, Friends,	Colleagues, Thera	pists, <u>Clera</u> v	/, Spiritual Advisors, etc)				
Name	Relationship	Phone	Email					
	•							



Diac	Inosis								
	ology – Histology: C	ancor T	vne/Locati	on/Histology	v Subt		Diagnosis Data (year): 2000		
	••• ••		••	son Score	y Subi	ype	Diagnosis Date (year): 2020		
	kin Lymphoma	512Heu+		3011 30016			Recurrence: 🗆 Yes 🗹 No		
-	e: □ ∞ □ □	Other:			□ Not	applicable		Ki67:	
	Tumor Analysis: Molecular & Genetic Markers (Caris, Foundation One,								
	,							-)	
Radi	ology: Scans MRIs (Date / Fi	ndings / Re	currence?)					
	tment		,	,					
Surg	-	Year	Location		Proc	edure	Findings		
Ye	s ^x No								
Radi	ation	Locati	on				End Date (yea	r)	
Ye	s No								
-	emic Therapy	Agent	s Used				Current OR E	nd Date (year)	
X Ye		BEAC	OPP				2020		
	no, hormonal, other)						2020		
	Effects – Adverse E		adache	tummv ach	e fat	iaue los	s of annetite au	m/mouth sores, light	
	led, persistant and				io, iai	igue, 100	s of appente, ga	m/moder seres, light	
	· •				<u>۱</u>				
	ent & Persistent Syn ue, body warmth, chil	-		set, Duration)				
гацу	ue, bouy warmin, chii	is, neaua	ache						
Com	nlamantary Natural	8. Altor	nativo Trog	tmente (Cho	ock if u	end prior "	"if patient wants r	more information)	
	Acupuncture/Chinese	a Allen	Pain Mana	tments (Check if used prior, " gement Detoxification				Gluten Free Diet	
	Med.			igement Detoxilicat			Ciuteir i lee Diet		
	Naturopathic Medicine		Meditation			Fasting		Dairy Free Diet	
	Nutritional Supplements		Prayer			Enemas		Raw Food Diet	
	Herbal Medicine		Yoga			Colonic Th		Special Diet – Other	
	Homeopathy		Tai Chi	/ 01 14		Saunas & S		Massage / Body Work	
	Chiropractic Physical Therapy			/ Stress Mng		Vegetarian Vegan Diet		Vaccine Therapy Treatment Outside U.S.	
	Other:			ergy medicine		vegan Die	. /		
	ent Prescription &	Quart	ha Count	or Modioati	000-				
	cation	Overi		Dose	ons		How Often?		
	AQUONE			5ML					
							1/DAY		
				10mg			nausea		
	CICLOVIR			500mg			1/day		
FILGA	STRIM			30MU		1	/day		
Recr	eational Drugs / Sel	f-Medica	tion	How Much	?	ł	low Often?		
L	Tobacco			NA					
	Alcohol			NA					
L	Marijuana/THC			NA					
	Sugar			NA					
	Other:								



Familial	Cancer	Risk Assessment	
----------	--------	------------------------	--

Family History of Cancer (Relation, Type of Cancer)

paternal grandmother 62 years old, stomach cancer; maternal grandmother 82 years old breast cancer

Genetic counseling: Yes x No

Genetic testing results:

pecial Diets - Curren		Genetic te	U			
	t					
Avoid Gluten		Avoid Sugar		High Protein Diet		Anti-inflammatory Diet
Avoid Wheat		Avoid Artificial Sweetener		Low Protein Diet	+	Detox
Avoid Corn		Avoid Red Meat		High Fiber Diet	-	Elimination Diet
Avoid Dairy		Vegetarian Diet		Low Fiber Diet	-	Hallal
Avoid Eggs		Vegan Diet		Raw Food Diet	-	Kosher
Avoid Soy	Low Glycemic/Carb Diet		Low Allergen Diet	-	Other:	
	essed. f	resh, chemical-free and hormor	e-free		s or p	
uality of Life & Long				,	P	
		ay experience concerns w	uith th	areas listed below If vo	uha	ve any questions
		uide you to the best resource			u na	ve any questions,
Emotional/Mental Health		-		Weight Changes	Τ	Polotionohino/Marriag
	א ו	Fatigue	х		X	Relationships/Marriag
Physical Functioning		Memory Loss/Focus		Financial Assistance		Children/Parenting
Spirituality	х	Sleep		School/Work	Х	Sex & Intimacy
Mortality / End of Life		Balance/Coordination	х	Fertility		Pain Management
Stress Management		Anxiety		Digestion/Elimination		Insurance
Fear of Recurrence		Nerve Pain		Alternative/Compl Medicine		Other:
number of lifestyle/be	havio	s can affect your ongoing	heali	h including the risk for can	cer r	eturning or developing
		support, discuss recommen				
Tobacco Use/Cessation		Diet & Nutrition		Detoxification Programs		
Alcohol/Drug Use		Sunscreen/UV Exposure		Meditation / Yoga / Prayer		
<u> </u>	X	-	_	Sleep, Relaxation & Stress Management		
Weight Management would also like to dis	х	Physical Activity/Exercise		Sleep, Relaxation & Stress IV	lanag	jement
-			?			
			-			

Anything you are worried about that might be related to the cancer coming back.

Copyright © 2016 American Institute of Integrative Oncology Research & Education



OutSmart Cancer Care Planner: To Be Completed By Provider

Insulin Res / Pre-Diabetes	ISK Fac	tors & Health Iss	ues			
		ression		Dysbiosis		Allergies
Diabetes, Type:	Anxiety			GERD		Asthma
Overweight		tal Illness		SIBO		Food/Gluten Sensitivities
Heart Disease		holism		IBS		Sinus Problems
Unhealthy Cholesterol	Drug Use / Abuse			Gastritis		Toxic Exposures
High Blood Pressure				Leaky Gut Syndrome	<u> </u>	Heavy Metals
Blood Clotting/Coagulation		Smoking/Tobacco Use Chronic Fatigue		Sleep Cycle Disorde		Organic Pollutants
Kidney Disease		nic Faligue		Chronic Pain		Mold
Autoimmune Disease:		r Addiction(s):			otivo	Other:
Autoimmune Disease.	Othe	a Addiction(s).		Gastrointestinal-Dige Disease	suve	Other.
ontinuing Treatment Plan						
eed for ongoing (adjuvant) tr dditional Treatment	eatment	For cancer: Ye Planned Duration			ossible S	ide Effects
		Plained Duration		F		
a commandations for Con		vaillanaa Eunati	ممما	Madiaina ^e Clini		oomonto
ecommendations for Cano ecommended:	er Surv	/emance, Functi		nat/When/How Ofte		
Coagulation-Blood Clotting Fa	ctors					
Blood Sugar Insulin Glycemic	Control					
Thyroid Assessment						
Hormone Levels- Hormone Me	etabolism					
Inflammation Markers						
Copper, Ceruloplasmin, Zinc						
Tumor Markers and CTC's						
Body Mass and Composition						
Toxic Exposures: Heavy Meta	ls-Mold-C	hemicals-Other				
Intestinal Microbiome						
Allergy and Sensitivity Testing						
23andme genome mapping						
Methylation Factors						
Genetic-Genomic Analysis						
Genetic-Genomic Analysis Mammogram + Breast US						
Mammogram + Breast US)					
Mammogram + Breast US Gynecologic Pelvic Exam PAF		DSV				
Mammogram + Breast US Gynecologic Pelvic Exam PAP Pelvic US, Colposcopy, Endor		psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free		psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy		psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAP Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool		psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy		psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening		psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening Parasites	netrial Bic	psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening Parasites Evaluate Personal Care Produ	netrial Bio	psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening Parasites Evaluate Personal Care Produ	netrial Bio	psy				
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening Parasites Evaluate Personal Care Produ Evaluate Cookware and Food Other:	netrial Bic					
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening Parasites Evaluate Personal Care Produ	netrial Bic					
Mammogram + Breast US Gynecologic Pelvic Exam PAF Pelvic US, Colposcopy, Endon PSA Total and Free Colonoscopy Occult Blood Stool Endoscopy Skin Cancer Screening Parasites Evaluate Personal Care Produ Evaluate Cookware and Food Other:	netrial Bic					

Copyright © 2016 American Institute of Integrative Oncology Research & Education



Thriver Care Plan for Patient: _____

Date: _____

Di	etary	/ Guidelines								
		id Gluten / Wheat		Avoid Sugar				Hig	h Protein Diet	Anti-inflammatory Diet
		id Soy		Avoid Artificia	I Swee	etener		Low	/ Protein Diet	Detox
	Avoi	id Corn		Avoid Red Me	eat			Hig	h Fiber Diet	Elimination Diet
	Avoi	id Dairy		Vegetarian Di	et			Low	/ Fiber Diet	Raw Food Diet
	Avoi	id Eggs		Vegan Diet				Low	/ Glycemic/Carb Diet	Low Allergen Diet
	Orga	anic, whole, unproc	essed, fresh	n, chemical-fre	e and	horm	one-fr	ee witho	out artificial colors, flavors	or preservatives
Other:										
	Othe	er:								
	Othe	er:								
Da	ily R	Recommendation	ons							
		Protein								
		Fruits (carbs)								
		Grains (carbs)								
		Sweeteners (carb	s)							
		Vegetables	,							
		Healthy Fats & Oi	ls							
		Herbs & Spices								
		Other								
		Additional Healing	Foods							
		Avoid								
		Daily Fluid Intake								
		Moderate Exercis	е							
		Restorative Sleep								
Su	pplen	nent	w/food	w/o food	В	L	D	Bed	Comments / Instructio	ns
Da	ilv T	herapeutic Sha	ako Diroc	tions				I		
		e Enzymes								
	otein	e Liizyines							Total Gram	o Drotoin:
									Total Gram	S FIOLEIII.
Fib										
не	aitny	Fats & Oils								
Mix	< With	า								
		I Additions								
Tip										
		Polavation & St	roce Man	agomont						
ne	ы, г	Relaxation & St	ress man	agement						



Emotional & Spiritual Supp	port	
Managing Side Effects		
Other		
Follow-up Support		
Provider / Organization	When/How Often	Contact Information
Quality of Life & Long-Tern	n Health	
		ype of cancer and treatment may experience:
Additional Besources and Su	agestions (referrals handouts	, audio, video, books, websites, centers, classes, support
groups, counseling, retreats, etc		,,,,,,
g		
Additional Comments:		
Prepared by:		Date:

Copyright © 2016 American Institute of Integrative Oncology Research & Education

