HEALTHY ARIZONA WORKSITES PROGRAM (HAWP) PRESENTS:

WHAT IS PRECISION MEDICINE? IS IT THE CURE TO CANCER THERAPY?





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WEBINAR HOUSEKEEPING

WELCOME

All lines have been muted.

Please type any questions into the chat or Questions panel and we will do our best to answer them all at the end.

All handouts and a copy of the presentation slides are available in the Handouts panel.

Please complete the survey that will be emailed out after the presentation

A recording will be added to the library of HAWP webinars on our website within 48 hours.

Special thanks to our supporting partner Dignity Health for their generous support in making this webinar possible.



PLEASE ENTER YOUR QUESTIONS IN THE CHAT.

Precision Medicine: Science and Art.

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at Dignity Health St. Joseph's Hospital
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Overview

- ☐ Traditional vs. Precision Medicine: How They Differ
- How Does Precision Medicine Work?
- How Can Precision Medicine Help?
- What Are the Benefits of Precision Medicine?



Histological Diagnosis of Cancer

Normal and Cancer Cells Structure Normal Cancer Cytoplasm Nucleus Nucleolus Chromatin- Large cytoplasm Small cytoplasm Single nucleus Multiple nuclei - Single nucleolus Multiple and large nucleoli - Fine chromatin Coarse chromatin

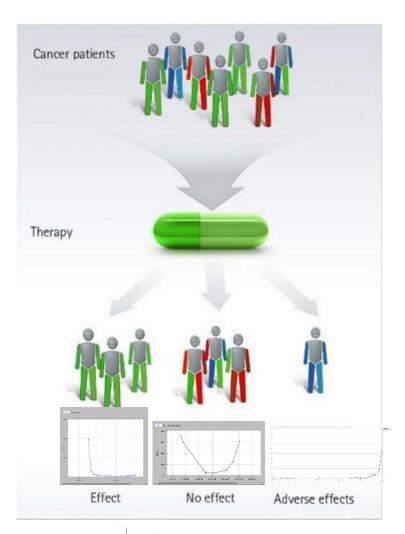


Rudolph Ludwig Karl Virchow 1821- 1902





Why the 'Best' Conventional Cancer Treatment Never Cure: "One size fits all"



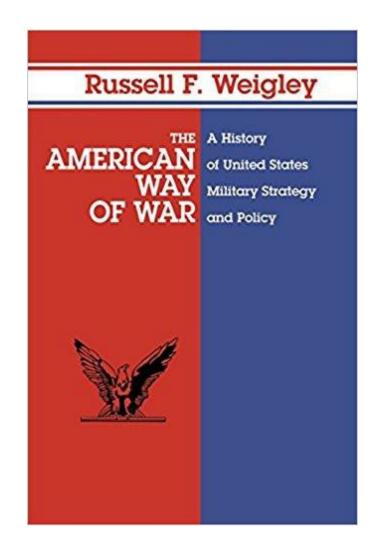






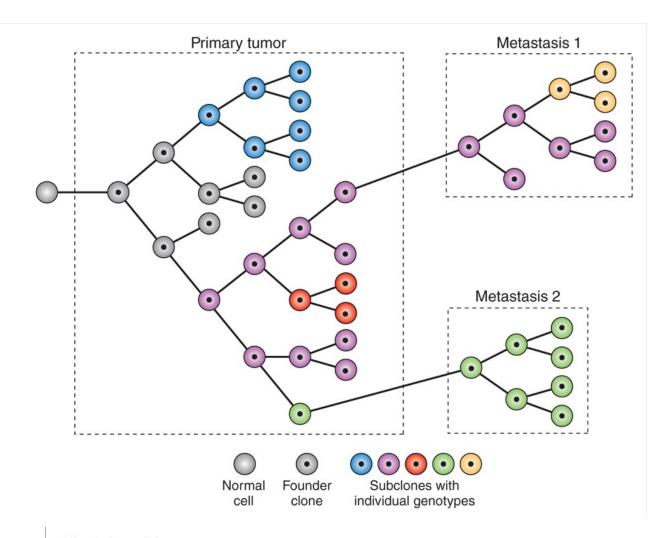
The American Way of Winning







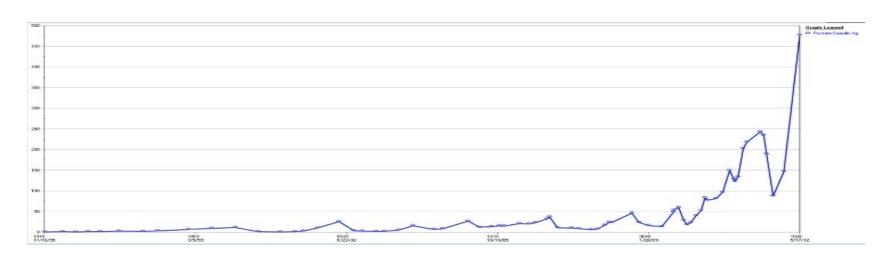
Clonal evolution in primary tumors and metastases

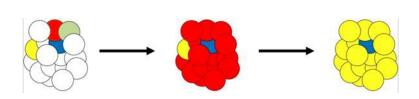






Rapid emergence of compensatory mechanisms of resistance: Playing "Whack a Mole"



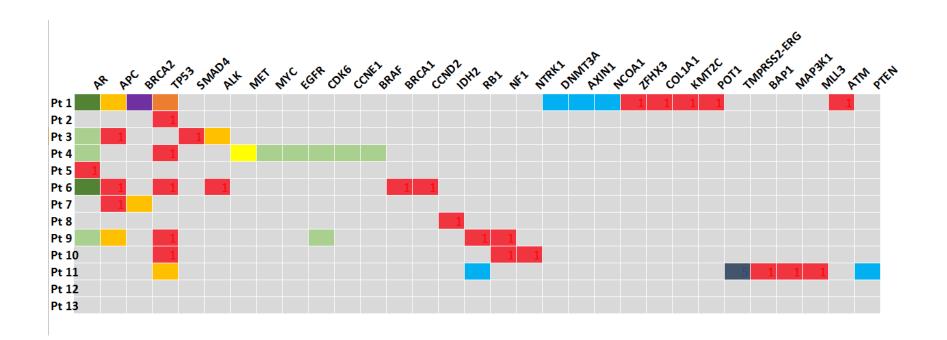








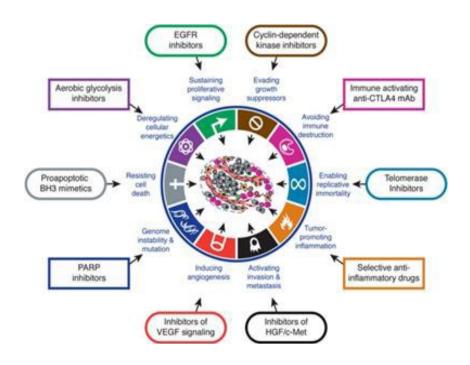
Next-generation Sequencing of Advanced Prostate Cancer at UACC

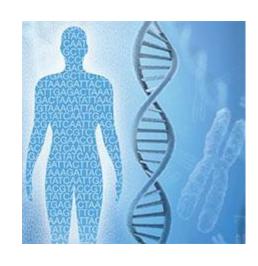




Advances in Understanding Cancer Genomes through Next-generation Sequencing

Hallmarks of Cancer



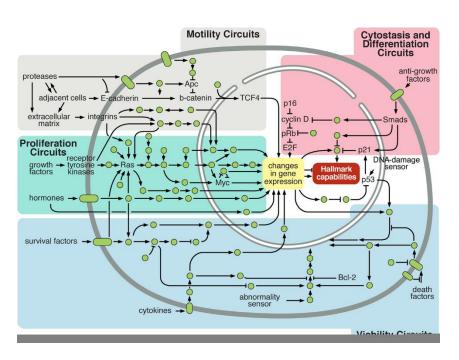


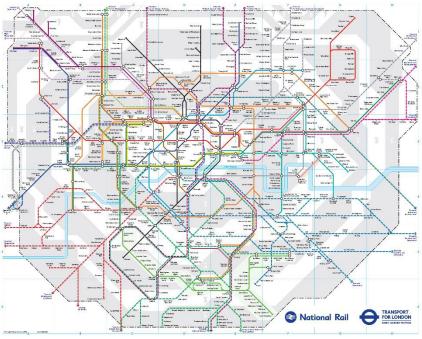






Cancer: Disorganized "Traffic Signal Systems"

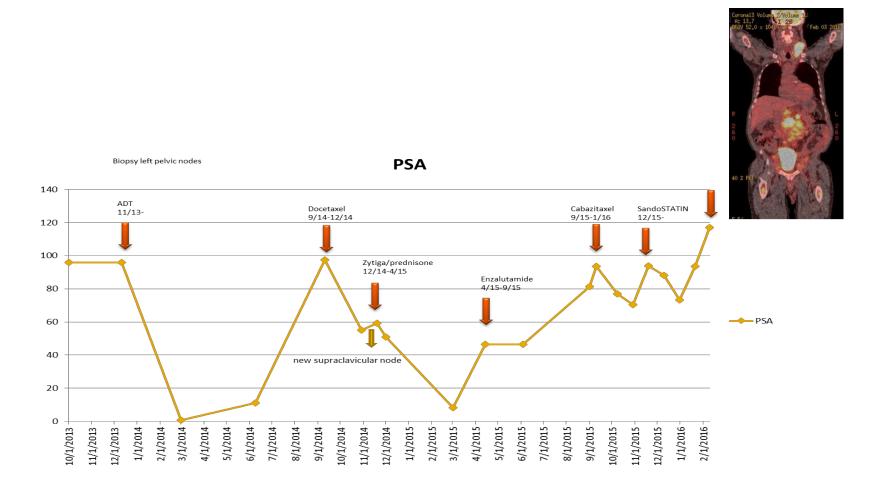








63-year-old male with stage IV prostate cancer (diagnosed in 2013) Came to UACC second opinion clinic on 9/15/2015







Achilles' Heel for Prostate Cancer

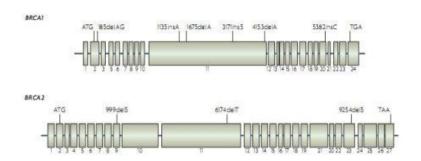


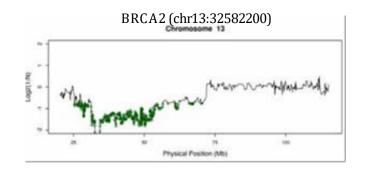


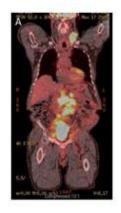






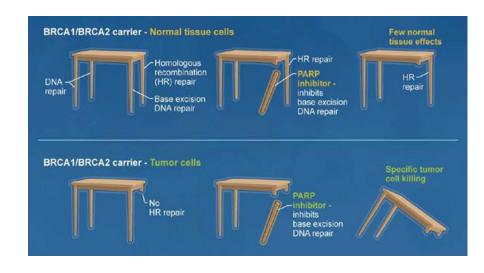






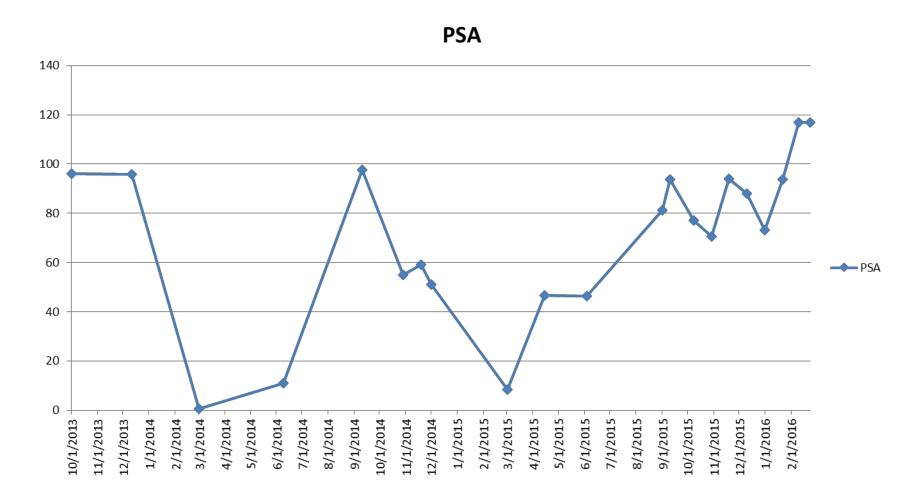


(A) FDG avid adenopathy in the multifocal regions including left cervical, left supractavicular and retroclavicular, mediastinal, abdomen, and pelvis. (B) Significant decrease in size and positive response to treatment of left cervical, supractavicular, pelvic, and retropertioneal metastatic adenopathy after seven months addition of octreotide treatment.



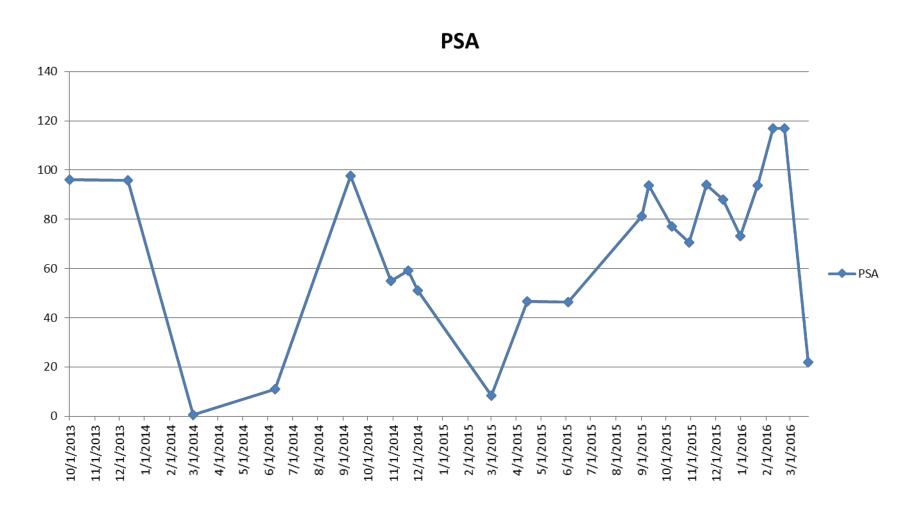






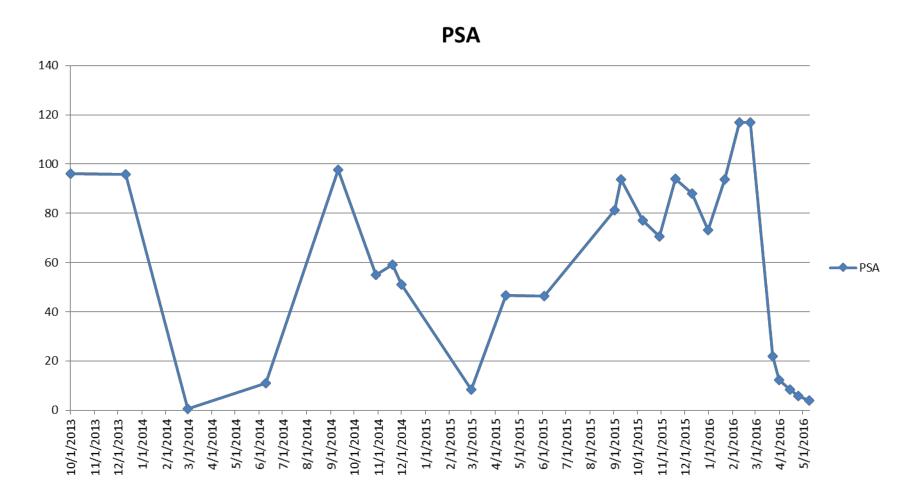








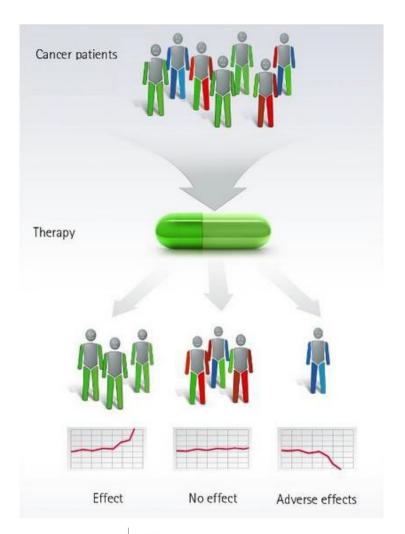


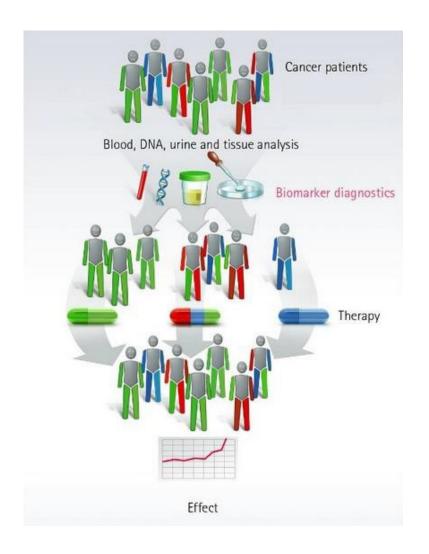






Harness the Power of Precision Medicine to Target Prostate Cancer









Thank You

For more information about precision medicine or to request a speaker for your worksite or organization on any cancer-related







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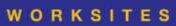


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THANK YOU FOR WATCHING!