Therapy Development in Prostate Cancer A medical oncologist's 'two cents'

Eleni Efstathiou MD PhD

GenitoUrinary Oncology Section Chief Houston Methodist Cancer Center



Disclosures – Eleni Efstathiou MD PhD

Research Support/P.I.	Janssen, Sanofi-Genzyme, Astellas/Medivation, Tracon, Oric- Pharma, Astra Zeneca, Bayer, Eli-Lilly, Myovant, Pfizer
Scientific Advisory Board	Janssen, Sanofi-Genzyme, Tolmar, Takeda, Astra Zeneca, Bayer,
Honoraria	Oric Pharma, Pfizer, Merck



'Discovery is our Business'

Charles Huggins (1902-1997) Urologist Nobel Prize in Medicine 1966 For fundamental discoveries concerning Hormonal Dependence for <u>Prostate and Breast Cancer</u>

Prostate Cancer lagged significantly in drug development ... Drug Development in Prostate Cancer by biologic domain in 2010





And Lagged in Molecular Tumor Characterization Pathology dictated by Morphology Gleason Grade and Score to this Day !!



Drug development Prostate Cancer :



Contagious Enthusiasm Era... Androgen Signaling Inhibition Therapy Development





Drug Development in Prostate Cancer by biologic domain in 2022



Treatment of Primary A systemic (equivalent) therapy ?

Source: Personal File

Grey Listings: phase III data but no indication



Precision Medicine Development

Aim : A clinically meaningful *Prostate Cancer Reclassification to Guide Therapeutic Strategies that maximize Therapeutic Index*



Ουκ ενι ιατρικην ειδεναι οστις μη οιδεν ο τι εστιν ανθρωπος Hippocrates 460-370 B.C.

'It is impossible to master medicine if one does not fully comprehend the man'



Asclepeion of Epidauros The inception of holistic healing **Revisit The Principle of Medicine Treat the man** not just a disease

Precision Medicine: Precise towards both the host (man) and the tumor

Technology to Provide Access to Resources

Deliverables: Therapeutic Index improvement Healthcare : Care of health rather than disease <u>Treat the man</u> not a disease

To make progress we need to reach into the past :

Each patient needs his 'Doctor / Quarterback'

Solutions: Give Physicians Back their time to truly practice medicine Technology to alleviate other bureaucratic burdens, streamline processes



A HealthCare "Corporation" to treat each man



The Elephant in the room.... Does Precision Medicine Pursuit serve Population Health Objectives



What is our goal as a community : Individual Health or Public Health ? Are we depriving Public Health of resources on our endeavor ?

The Vision : A Patient in charge of his health management

Patient-Centered Care





'Science is not cold and unfeeling. In scientific investigation one becomes emotionally contained in his problem. Head, heart and hand – the three H's of experimentation – all are involved in creativity in the medical sciences. The combination enables us to recognize a solvable problem.'

Charles B. Huggins

Dogmas / Conventions/ Absolute Purism should not govern our research practice Adaptation to an evolving therapeutic paradigm is of paramount importance We are here to all work together and make progress