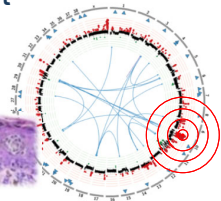
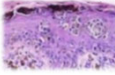


Clinical Genomics in Oncology Diagnostics and Treatment

William Hendricks, PhD
Adjunct Assistant Professor, Integrated Cancer Genomics, TGen
Principal, Actual Labs Consulting
Chief Product Officer, MI:RNA Diagnostics
Venture Partner, Vetted Capital

July 2025
Conti Symposium on Veterinary Continuing Education
Current Concepts and Controversies in Clinical Genomics



1

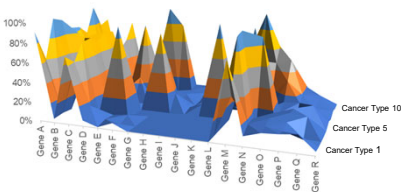
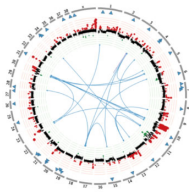
Disclosures

Owner, Employee, Contractor, and/or Equity-Holder:

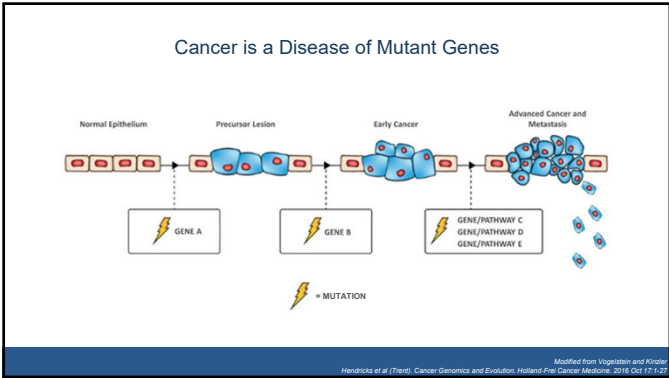
- Actual Labs Consulting
- MI:RNA Diagnostics
- Vetted Capital

2

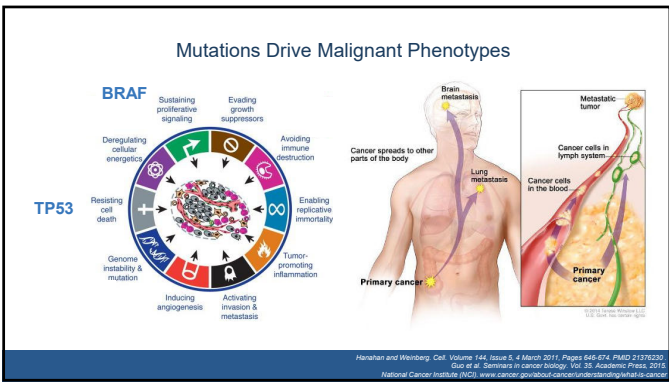
Cancer Genomics: Navigating the Rugged Landscape



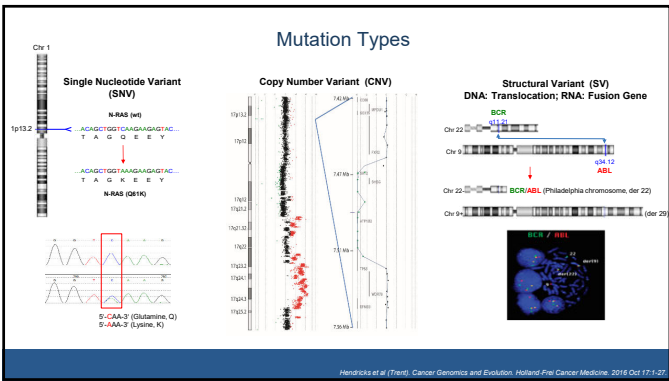
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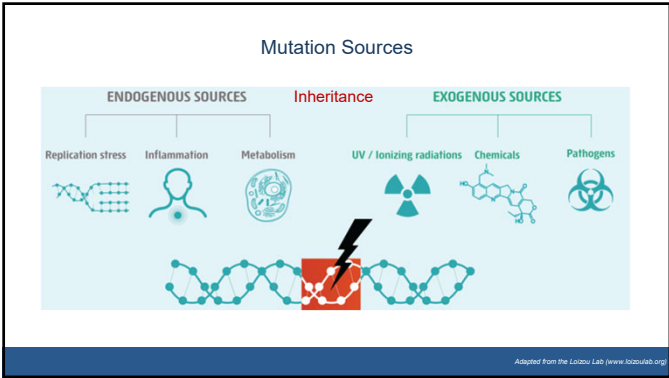
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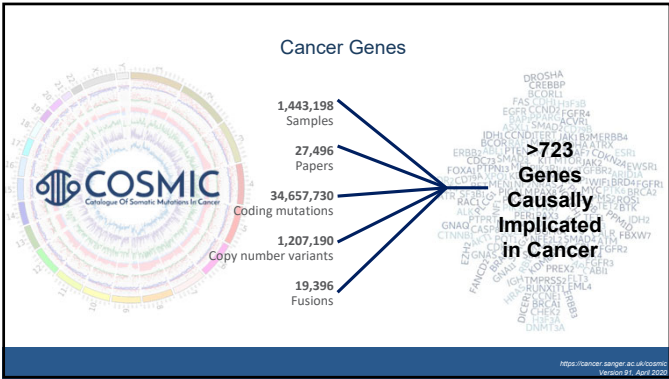
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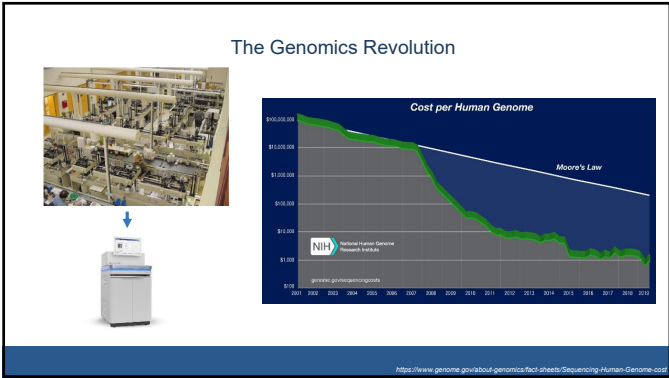
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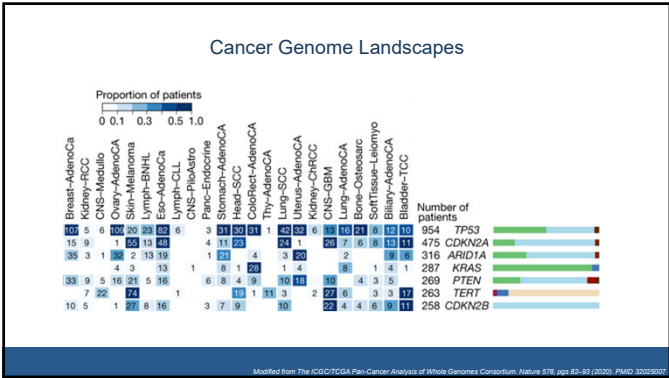
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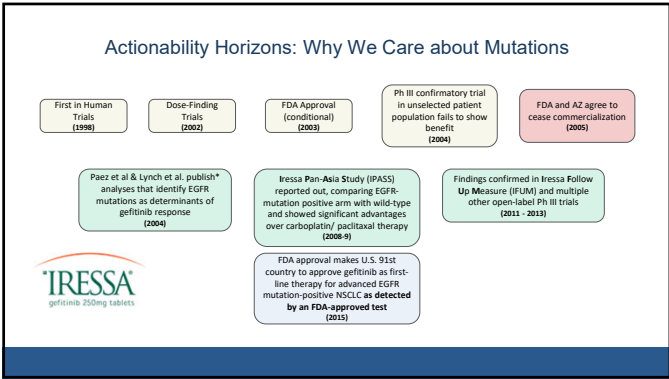
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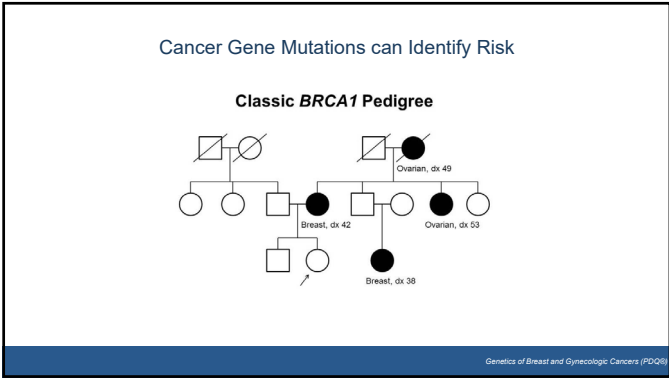
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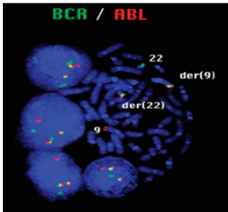
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12

They can be Diagnostic...

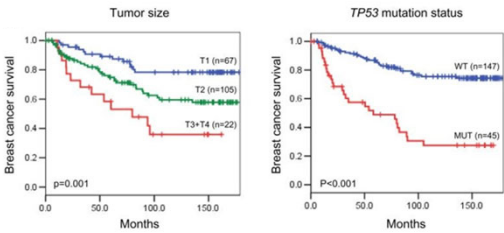
BCR-ABL in CML



Druker et al. Nat Med. 1996; PMID 8616716

13

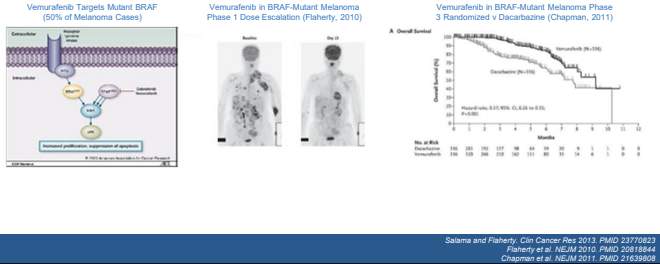
...Prognostic...



Langerod et al. BMC Breast Cancer Research. 2007; PMID 17504517

14

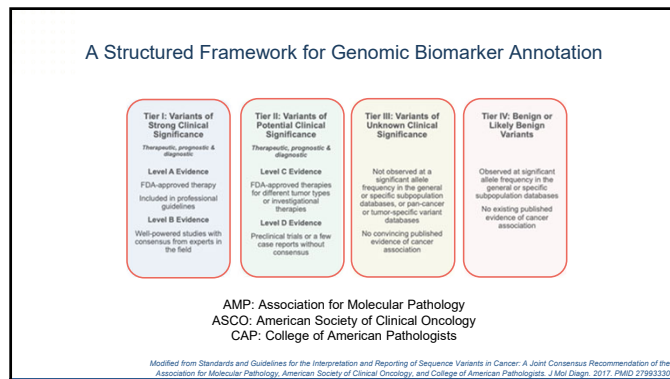
...and Predictive of Response to Targeted Drugs



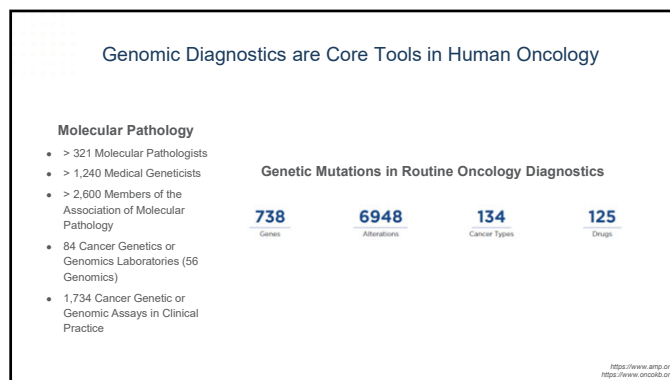
*Salama and Flaherty. Clin Cancer Res 2013; PMID 23770823
Flaherty et al. NEJM 2010; PMID 20518944
Chapman et al. NEJM 2011; PMID 21439808*

15

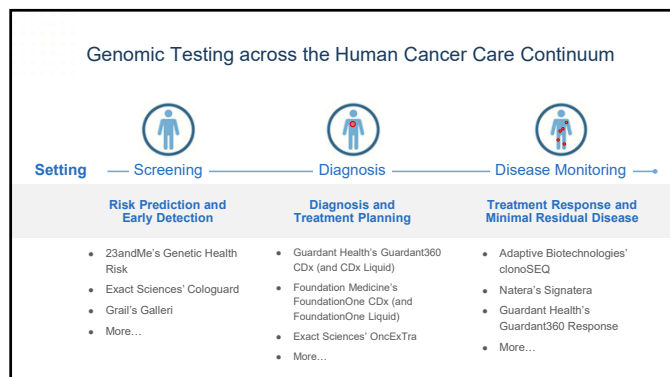
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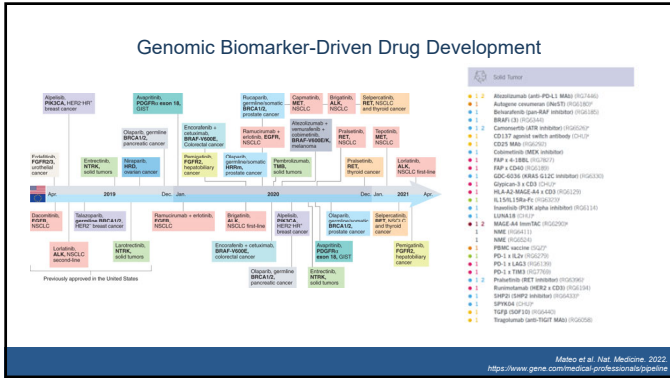


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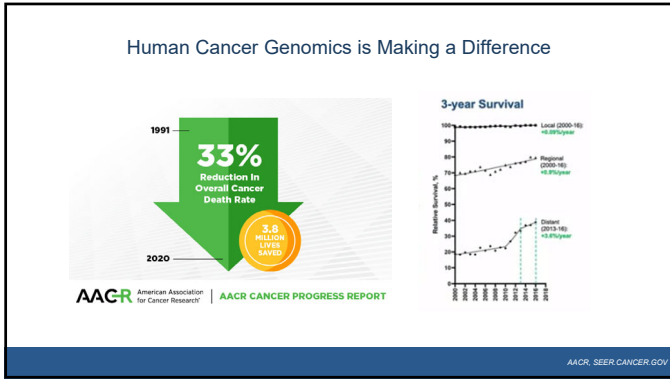


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20

Cancer in Pet Dogs: A Massive Unmet Need

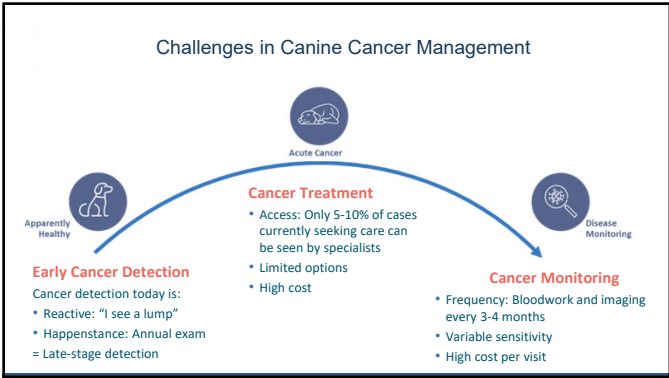
~ **6 MILLION** canine cancer diagnoses per year

Cancer is the **LEADING** cause of death in dogs

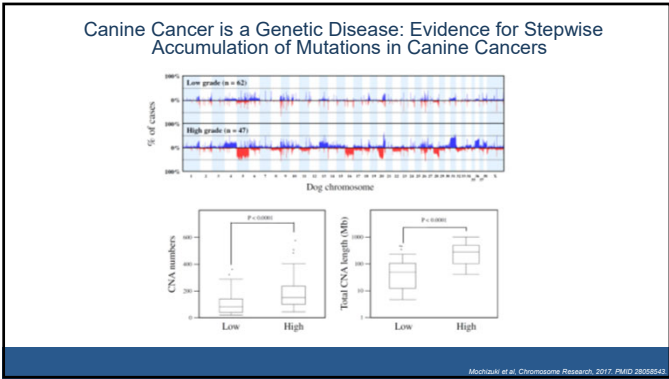
74% of owners would do everything possible for their pet dog with cancer and 50% of owners would pursue intervention...

...and yet 40% don't receive treatment and 90% don't receive chemotherapy

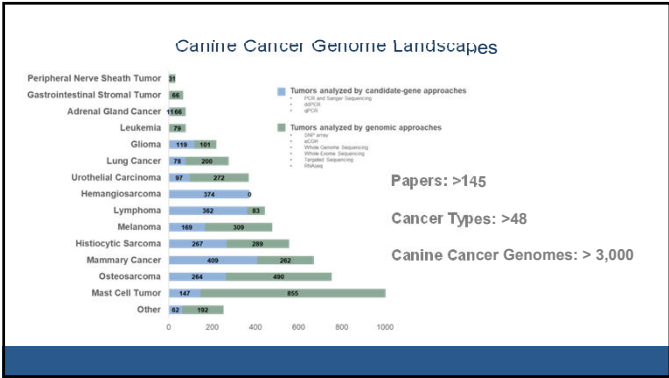
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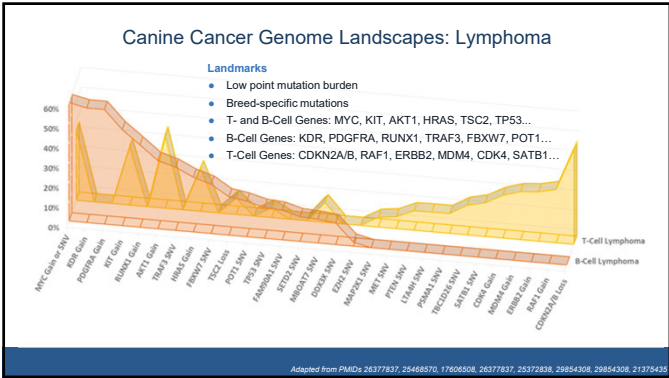
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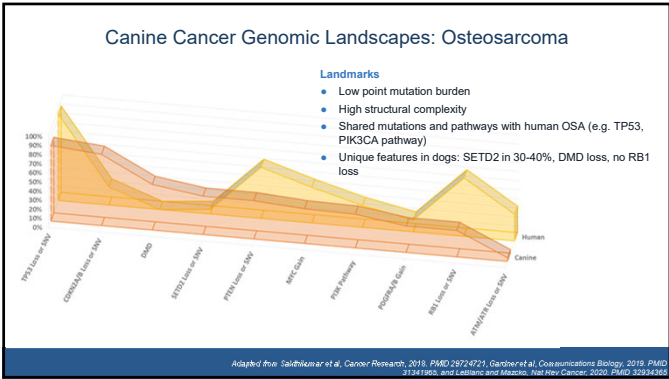
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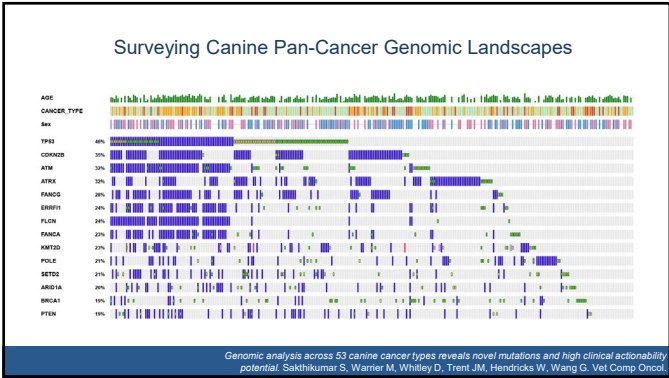
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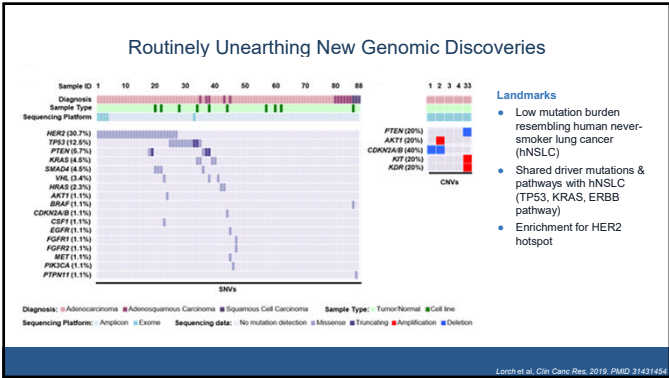
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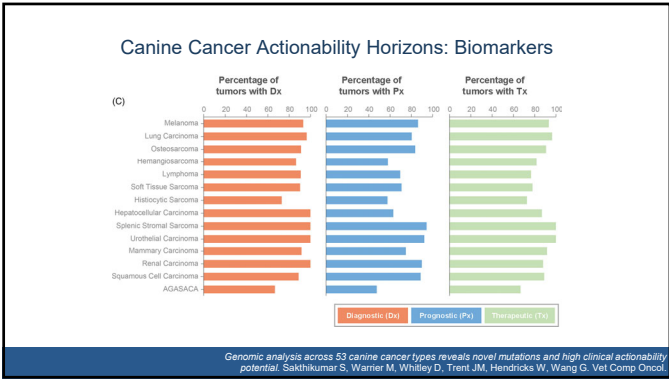
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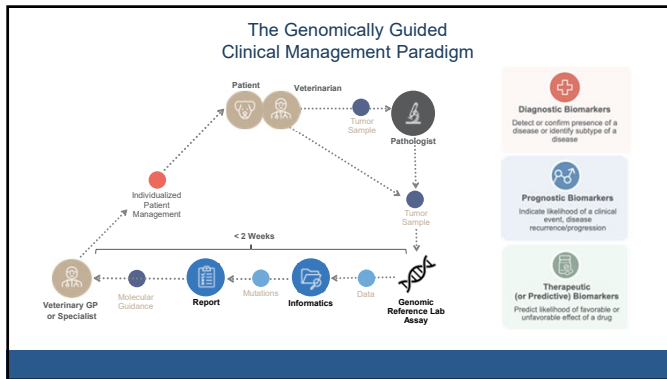
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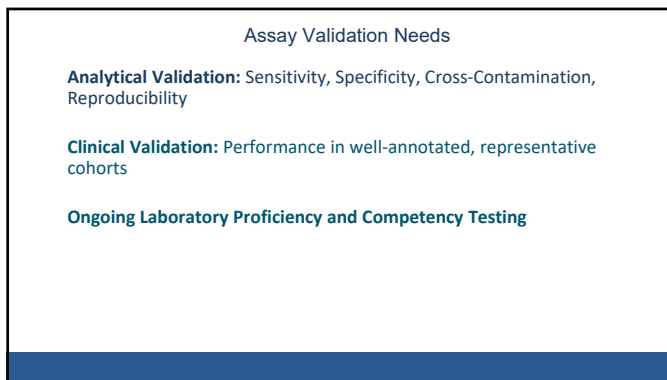
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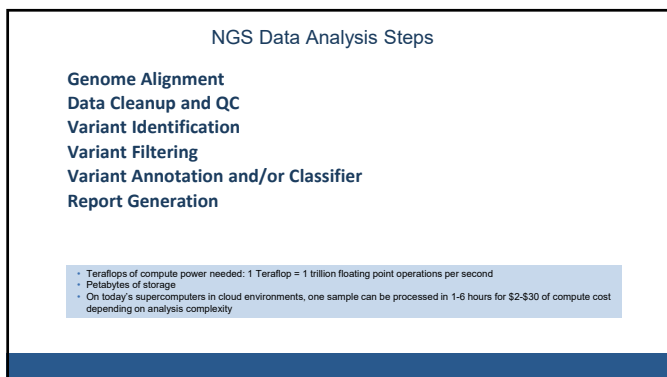
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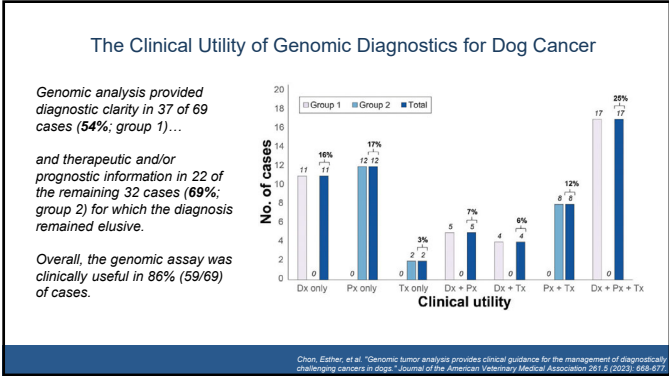
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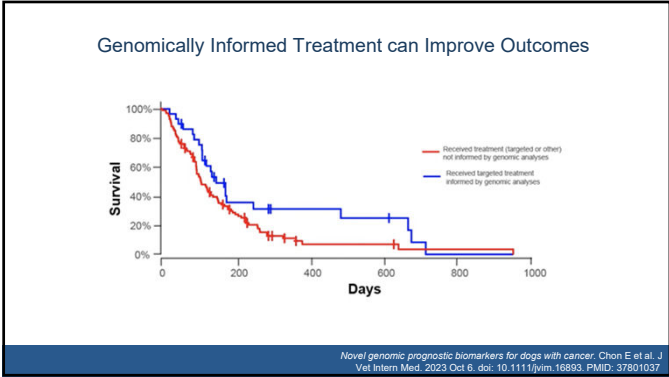
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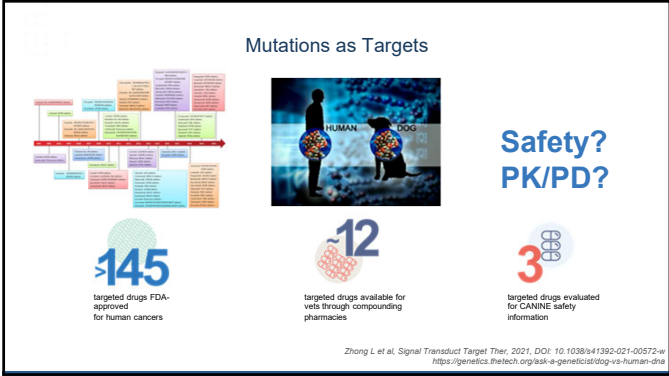
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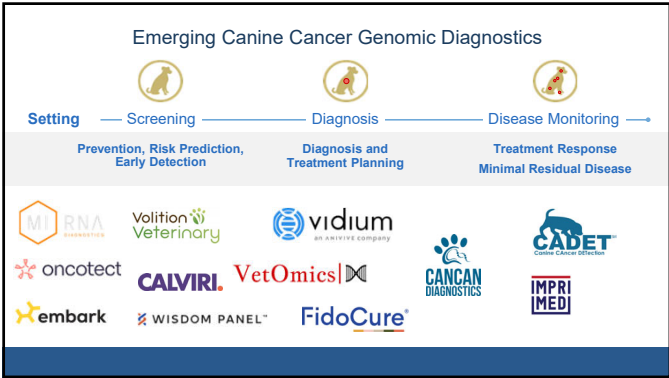
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