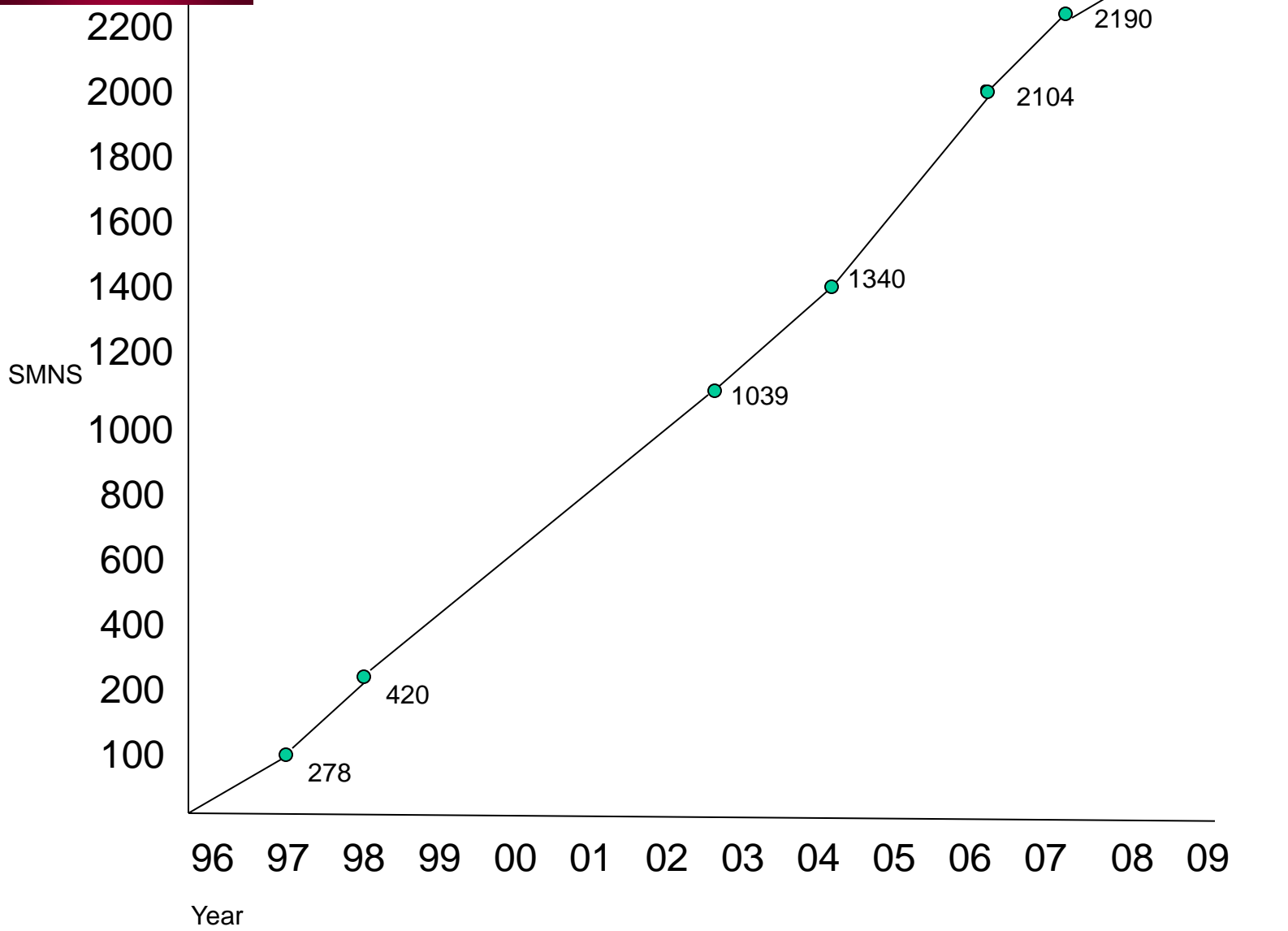


# Childhood Cancer Survivor Study (U24 CA55727)

## Report of the Second Neoplasms Working Group Joe Neglia, M.D.

CCSS Investigator Meeting  
Williamsburg, VA  
June 9-10, 2010

# Second Neoplasms: Accrual of Confirmed Cases



# Second Tumors Working Group *Publications*

- Overview – Neglia/Friedman – JNCI 2001
- GH - Sklar – J Clin Endo Metab 2002
- Methods –Yutaka – Amer J Epid 2003
- Breast cancer – Kenney –Ann Int Med 2004
- Hodgkins/RTpolyorphisms – Mertens -Cancer – 2004
- Sibs – Friedman – Ca Epid Bio Prev - 2005
- Non-melanoma skin ca – Perkins – J Clin Oncol -2005

# Second Tumors Working Group *Publications (2)*

- Thyroid cancer –Sigurdson – Lancet 2005
- Other Carcinomas – Bassal – JCO 2006
- GH update - Ergun-Longmire – Amer J Endo Metab 2006
- Thyroid dose – Ronckers – Rad Res 2006
- Secondary CNS – Neglia – JCNi 2006
- Sarcoma – Henderson – JNCI 2007

# Second Tumors Working Group

## *Publications (3) 2008 - 10*

- **SMN Prediction Model – Dinu: Ped Blood & Cancer 2008**
- **Cause-specific mortality and second cancers after NHL - Bluhm: Blood 2008**
- **Thyroid Dysfunction & thyroid Cancer – Chow: Ped Blood & Cancer 2009**
- **Radiation Dose and Breast Cancer – Inskip: J Clin Oncol 2009**

# Second Tumors Working Group

## *Publications (4) 2008 - 10*

- **Breslow et al. SMN after Wilms' – International Study. In press, *International Journal of Cancer* 2010**
- **Friedman et al. Update on SN in overall cohort. In press *JNCI* 2010**
- **Bhatti et al. Radiation and Thyroid Cancer. Provisional acceptance *Radiation Research* 2010**

## Disease Specific Manuscripts including SNs

- **AML- Mulrooney/Davies; *Cancer* 2008**
- **ALL- Mody/Neglia; *Blood* 2008**
- **Neuroblastoma- Laverdiere/Sklar; *JNCI* 2009**
- **CNS Tumors – Armstrong/ Packer; *JNCI* 2009**
- **Osteosarcoma – Nagarajan / Marina; *Cancer* 2010**
- **Ewing sarcoma- Ginsberg/Oeffinger; analysis underway – *submitted JNCI***

# Second Tumors Working Group

## *Active Concepts / AOs*

- **Secondary GI malignancies – Henderson, Nathan abstract presented at ASCO**
- **Multiple Subsequent Neoplasms – Armstrong / Robison abstract presented at ASCO**
- **Late Occurring Leukemia – Nottage (data collection phase)**
- **Secondary Salivary Gland Tumors - Boukheris / Inskip (manuscript in draft phase)**
- **GH Therapy and Brain Tumors – Meacham (concept pending)**



## Ancillary Studies

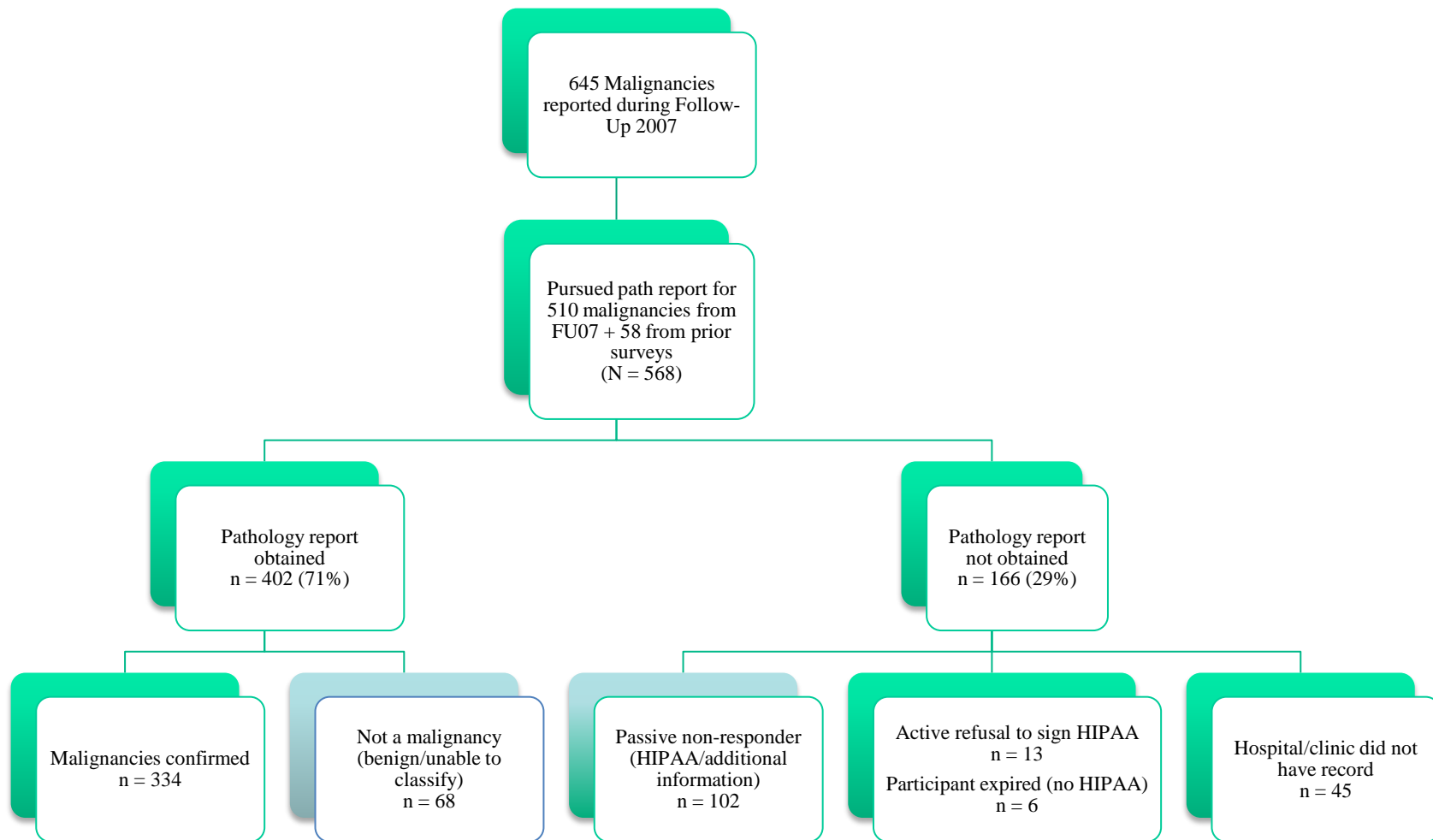
- **Mammography and High Risk Survivors**
  - Oeffinger; 2004-5; R21
- **Radiation Dose and Risk of Non-Melanoma**
  - Mertens; 2006-08; LAF
- **Genetics of Second Cancer**
  - Onel; 2007-10; R21
- **Encourage Mammography and Prevention..**
  - Oeffinger; 2009-13; R01
- **Projecting Absolute Breast Cancer Risk**
  - Moskowitz; 2010-13; R01

# Second Tumors Working Group

## *Priorities*

- **SMN Validations - review of 100 of the SMNs that we have (NMSC included)**
- **Migration of database to ICDO3**
- **Ongoing accrual & verification of SMNs**
- **Integration of biology into SMN research**
- **Scripts for validation of Second Neoplasms**
- **Merging with selected state cancer registries**

# Second Tumors Working Group HIPAA



**Passive + Active = 115/166 = 69%**

# Second Tumors Working Group

## *Opportunities*

- **Host Genetics and Behaviors associated with SMN risk (not everyone gets a SN)**
  - DNA repair pathways
  - GWAS
  - Chemotherapy metabolism
  - Other?
- **Risk Mitigation with Cancer Control**
  - Breast interventions?
  - NMSC interventions?
- **Other new populations – new AOs**