

Second Tumor Working Group

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Ronckers, Peter Inskip, Louise Strong,
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Second Tumor Working Group 2007 Publications Summary

- Overview – Neglia/Friedman – JNCI 2001
- GH - Sklar – JClinEndoMetab 2002
- Methods –Yutaka – AmerJEpid 2003
- Breast cancer – Kenney –AnnIntMed 2004
- Hodgkins/RTpolyorphisms – Mertens -
Cancer – 2004
- Sibs – Friedman – CaEpid BioPrev - 2005
- Non-melanoma skin ca – Perkins – 2005

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- Thyroid cancer – Sigurdson – Lancet 2005
- Other Carcinomas – Bassal – JCO 2006
- GH update - Ergun-Longmire –
AmerJEndoMetab 2006
- Thyroid dose – Ronckers – Rad Res 2006
- Secondary CNS – Neglia – JNCI 2006
- Predictive model – Dinu – PBC 2006
- Sarcoma – Henderson – JNCI 2007

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Approved Concept Proposals

- Disease-specific including second tumors
 - Neuroblastoma- Laverdiere/Sklar; ***analysis near completion***
 - NHL –Bluhm/Inskip; ***manuscript submitted***
 - Ewing sarcoma- Ginsberg/Oeffinger; analysis underway
 - AML- Mulrooney/Davies: ***manuscript resubmitted***
 - ALL- Mody/Neglia; ***manuscript resubmitted***
 - HD-Castellino/Hudson; analysis underway
 - CNS- Armstrong; in analysis queue
 - OS- Nagarajan/Robison ***analysis underway***

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Second Tumor Projects in the Pipeline

Second tumor (20+ year) update: Friedman et al

Now near completion; first draft in review

Radiation dosimetry in breast cancer as second tumor: Inskip et al

Draft nearing completion

Radiation and thyroid cancer - alternative methods for dosimetry: Ronckers, Stovall, Inskip et al

Analysis underway

Breast cancer screening – Oeffinger, et al

Draft circulating

Second tumors following Wilms: An international study; Breslow/Olson/ Friedman

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Second Tumor Projects in the Pipeline

Second tumors following Wilms: An international study; Breslow/Olson/ Friedman

Group	NWTS	CCSS	UK	Nordic	Totals
Years	69-02	70-86	62-04	43-05	
Pts	9247	489	2893	1872	14,682
P-yrs					182,658
SNs (exc NMSC)					265 (227)

* Updated concept to be submitted - Breslow

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Concepts/analyses previously reported

MDM2 and Breast Cancer (Davies, Friedman, Strong) *study largely complete*

Check 1 Variant and Breast Cancer (Davies, Stambrook) *study ceased; no variation in humans*

RET/PTC and Thyroid Cancer (Nikiforov, Davies) *study initiated, R-01 funded but human studies will come later in project*

Host predisposition to meningioma (Neglia, Davies, Mertens) *no concept submitted*

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Concepts/analyses discussed (1)

- Dosimetry analysis of secondary sarcomas
- Breast Cancer Analysis (Inskip)
 - main effects of therapy
 - interaction of RT & other risk factors
- Salivary Gland Tumors; international collaboration
- Meningioma; international and other collaboration

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Concepts/analyses discussed (2)

- Non-melanoma skin cancer
 - recontact of patients for additional DNA (Mertens / Davies concept to be submitted)
 - Validation of self report of nmsc location
 - Radiation dosimetry
 - Genetic factors

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- Priority Analysis for Expanded Cohort
 - Comparison of SMNs at similar times from dx in old vs new cohort
 - Detection of SMNs in the cohort – screening and surveillance practices
 - Additional data to be requested when SMN patients contacted

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- **Additional Discussion**

- Replenishing of the DNA bank: can we collect DNA closer to time of occurrence of SMN?
- Oversight of the DNA collected
- JCO supplement; RT overview and others

- **Public use database**

- Model after SEER
 - Age, gender, primary and smn dx
 - Limited treatment information
 - Chemo exposure
 - XRT exposure