

40

FE

## ② Thimerosal + Neurodevelopment

Thomas Jaerstraten  
- used automated data

- Speech Delay / ADHD
- presented to ACIP / AAP

VSD - NCR large association  
Harvard Pilgrum - no association

① Bob Davis - possible battery + Thomas  
December Proposal

Review February / March Simpson <sup>Wood</sup> Group Review  
8-10 Individuals

③ Autism - symptom onset before 36 months  
MMR Vaccine / Walt Orenstein

2 Studies

Kathy  
Murphy

① Birth Defects Groups NCEH

- identify Autism in schools

- 3 controls / 1 case

- MMR Before 24 months / After 24 months

41

SH

6

## Regressive Autism

- develop normally then begin declining
- speech + language
- case report of 12 cases MMR
- all sorts of GI symptoms / Wake feed

20% of Autism Cases

### NIH Centers for Excellence in Autism

- 10 Centers
- 1600 kids with Autism
- standardize regressive autism n = 30

### Interagency Agreement with NIH

University of Chicago will coordinate  
Protocol is in development

Kathy Lord

Frank

250 Regr Autism  
 250 Non Regr Autism  
 Control Population  $\frac{7}{n}$

Ⓐ Timing of Vaccination for MMR  
 - 750 Controls

Ⓑ Biological Measures

- Measles Antibodies / White Blood
- NIH would like to measure antibody
- draw blood from kids

mas

24 months

42

IN

- Start looking at NIS + MMR
- 2/1000 of autism
- range 2/1000 - 9/1000

Timeline in 18 months

---

Things to do 2/19/2001

- ② High Risk Codes + Notes from Feb meeting
- ① Excess Death Results / Paper
  - ⓐ convert Betas to rates/counts

- ② MMR Proposal
  - ⓐ Read articles

ks

rome  
l

- ③ Thimerosal Proposal
  - ⓐ Slides for Guinea
  - ⓑ Outcomes

- ④ Japan Visit
  - ⓐ Slides
  - ⓑ Laptop Computer

- ⑤ Ford Analyses

104

MMR Prevalence Study

2/21/2001

December 1 Head Count

(2)

# MMR / Autism Study

3/21/2001

① Missing Vaccine Data

② Rules for Vaccine Requirement

③ Age at vaccination - Currently in months  
- how was it rounded

④ Corrected Vaccination - how was it corrected

⑤ Program Corrections

⑥ Data Corrections / Errors  
- do we have forms to go back to

⑦ DTPI - 8 / -4

⑧ Hep B

3

## MMR / Autism Study

### ① Missing Data

② 3 controls (N=11 cases don't)

③ 1640 Controls

- III Georgia special ed files
- do we lose any cases?

④ Matching to birth records 50% vs 63%

- how many controls per case?
- selection bias?

⑤ Missing on MMR - exposure variable

- Form or not

Things to Do 4/1/2001

① New England Letter

② Excess Death Results

a) Summarize

b) email meeting date

③ MMR/Autism Analysis Plan

a) No more analyses

b) Threshold Variables

④ USO Adult Call

a) Call Lisa Jackson

b) Call/email Tracy Lein

c) Martin Results - age groups / periods

⑤ Haber HIV/AIDS Analyses

- ask to meet regarding excess deaths

⑥ Make Travel Arrangements for Portland

⑦ Confirm Thursday lunch next week



# MMR / Autism Study

4/3/2001

## ① Analysis Issues

### ① Missing Data

56 35 controls

① Missing Vaccine Record

② Missing Birthdate

③ Missing Information of Vaccine Record

Required (AEP B - 20% Missing)

DTP

MMR

IAPV / OPV

Hib 60% Missing

④ Nonsense Values for vaccination age

## ② Table 1

① Chi Square Test Excluding Missing Data

② Chi Square Tests Missing vs Not Missing  
- Missing Data Tables - Thimerosal variables

## ③ Significant Factors for Table 1

Mother's Age at Birth

- Controls are younger

Mother's Education at Birth

- Controls are less educated

MMR Doses

- Controls get more doses

- could be driven by known associations

- might drop from analysis

# ASD/MMR

## ① Incorrect Data

- ① Missing Vaccine Record (Variable available)
- ② Missing MMR (~~not~~ to missing)
- ③ Invalid Dates Vaccinations

- ~~still note~~ errors correct
- 2 cases can't be corrected

## ② Case Selection

- ① in a ~~set~~ public school system
- ② very few less than 5

① main U

Autovac1

## Thompson, William

---

**From:** Karapurkar, Tanya  
**Sent:** Monday, April 16, 2001 3:48 PM  
**To:** Thompson, William  
**Subject:** MMR case and controls

Hi Bill-

I hope you had a wonderful week. I just wanted to provide you with the numbers for the power calculations. Since the abstractors were editing last week, I thought I would give you the most updated info. To date there are 575 complete case sets (1 case and 3 controls); so 575 cases and 1725 controls. Also, as you can see from my previous message we have ~180 additional cases and 540 controls left to abstract. However, as of this morning, Nancy told me that there are about 100 new cases that were recently identified. A good number (I don't exactly how many yet) are of the 3-5 age group so it may be possible that we are not able to abstract them as we would like because they are not in a school. So, going with what we have, there are 575 + 180 cases (still left to abstract) = 755 cases and 2265 controls. If you want to add the 100 cases ~~controls~~ right now, I guess that is ~855 cases and so on. When Nancy has the list ready I will be able to better assess how many of those kids we can actually abstract.

Thanks,  
Tanya

Things to Do 4/27/2001

- ① MMR / Autism Analysis Plan - May 11th
  - ⓐ Record Reviews - May 9th
  - ⓑ Edit analysis plan

- ② Thimerosal Outcomes = May 11th
  - ⓐ Roberta Comments

- ③ LAIV Meeting = May 9th

- ④ Portland ← May 11th
  - ⓐ Factor Analysis of Symptom Data

- ⑤ HIV Meeting Tuesday - May 1

Things to Do

4/30/2001

① Adult Call Agenda

② Meet with Frank regarding:

① Autism Analysis Plan

② Adult call agenda

③ Talk with Katie regarding hypersensuon codes

④ Read Influenza Hospitalization Papers

⑤ Thimerosal

⑥ Autism

① Record Review

② Analysis Plan

③ Power Calculations

Things to Do

5/4/2001

- ① ~~E-mail Paula Ray regarding high risk influenza coxsa~~
- ② ~~E-mail PI's regarding ADHD meds~~
- ③ ~~Agenda for Thursday Meeting~~
- ④ Factor Analysis of VABRS Data
- ⑤ MMR / Autism Analysis Plan
  - a) Power Calculations
- ⑥ Influenza LAIV
  - a) Hosp
  - b) Deaths
- ⑦ Japan Trip Report
- ⑧ ~~E-mail David Shay~~  
~~Tuesday 10:30 - 12:30~~  
~~Move to 1:00~~

Things to Do 5/4/2001

① Factor Analysis of VAERS Data

② E-mail Keiji about HERS

③ Influenza LAIV Meeting (a) Deaths

(b) Hosp

④ Thimerosal Proposal Fortland

⑤ MMR Proposal

⑥ Japan Trip Report

26

5/4/2001 MMR / Autism Meeting



Things to Do

5/6/2001

- ① Call Frank to do lawn - ask Lori about Pine Needles
- ② Look at trees in back
- ③ Confirm travel to portland
- ④ Portland Meeting
  - ⓐ VAERS Analyses
  - ⓑ Thimerosal Proposal
- ⑤ LAIV Meeting
- ⑥ Thimerosal Proposal
- ⑦ MMR/Autism Proposal

Autism Analyses

6/20/2001

- ① Onset Dates in Protocol for review  
- line listing
- ② Other Developmental Delays / Any Birth Defects
- ③ SES Variables

Things to Do 6/22/2001

① Excess Death Paper

② Thimerosal Task Order

③ Autism Analyses / Descriptive Stats

# Autism Analyses

Adoption

age dx - age at earliest diagnosis

all mmr -

all vac -

any lms - early eval

avagedx autism earliest

Ausdiag - autism spectrum diagnosis

aus~~diag~~ - autism spectrum diagnosis revised

B - apparl

B - apparl

B - cent 6

B - cityc

B - cnty 80-93

B - cntyn 94 on

MMR/Autism 7/23/2001

2:30 Friday Meeting

Things to Do 7/23/2001

- ① Autism / MMR Analyses
  - Ⓐ Descriptive Statistics
  - Ⓑ Case-Control Analyses
- ② Excess Death Paper
- ③ Ford Analyses -
- ④ Michael Blank Proposal
- ⑤ HERS Paper / Analyses
- ⑥ ~~Dr~~ Bruce Bembking Analyses HIV / Flu
- ⑦ Lisa Jackson Paper
- ⑧ Emory ASPA Intern
- ⑨ Thiamosal Follow-Up Study
- ⑩ Influenza Hospitalization Paper

Things to Do 7/26/2001

- ① Timeliness Task Order  
- respond to RTI request
- ② Kate Robertson meetings
- ③ Autism Analyses
- ④ Autism Record Review
- ⑤ Influenza Adult Call
  - a) High risk codes
  - b) Influenza / RSV circulation
  - c) Call John Mulholy - death data

Autism Genetic Study 8/1/2001

NY { All low birth weight \* \*  
 440 multiple births - initially Followup  
 200 multiple births - final 6, 7, 8  
 Looking at IQ + CP 55%  
 100 families with 200 children

MADDSP - No zygosity data

MR, CP, VI, HI, Autism

4500 cases

175 twins

in 75 twin pairs

3-10 yrs 1991-1994

Other Risk factors

M-Age

M-Educ

Birthweight

Georgia Longitudinal Data Set

< 20 weeks

> 45 weeks

} gestational eliminated



Things to Do 8/7/2001

- ① E-mail regarding filing cabinets
- ② E-mail regarding VSD travel projections  
- do travel projections
- ③ Autism Analyses
- ④ Autism Record Review
- ⑤ Weigong
  - ⓐ e-mail Diane Simpson
  - ⓑ e-mail Weigong SAS prog
- ⑥ Call VSD Candidate - Sean Shadomy  
(301) 827-6070 Aug 2002

FDA Vaccine Safety Branch  
 2 year Post Doc Fellow  
 DrM, MPH - veterinarian

⑦ Autism Proposals

- ⑧ Ford Study
- ⑨ Call Bob Davis (206) 685 4028
  - ⓐ travel = forward
  - ⓑ Weigong

Things to Do 8/8/2001

① Autism Record Review  
    a) 10 previous records

    b) 10 new records

② Autism Proposals - Due COB today

③ Autism Tables

Things to do 8/9/2001

① Response to ~~Thimerosal Follow-up~~

① Call Bell South (404) 780-2355

- Drop mobile wire maintenance service plan

② Get Honda inspected

③ Call Ericka (404) 876-2317 # 311  
(678) 342-7875

749 N Highland  
Arlens Park

④ Autism Secondary Objective

⑤ Autism Study

① Missing Data

create cross tabs { - create missing birth certificate variable  
- create missing state variable

Birthstate variable is from school records

- ① Birth certificate or
- ② Other information

⑥ Send Tamya missing IM Form and Missing MMR IDs

⑦ Gestational Age

- Baseline should be missing Menses Data
- ~~use~~ subset based on missing Menses Data

⑧ Check Age 3-11 or 3-10

⑨ Add epilepsy (associated medical condition)

\* ⑩ MMR vaccine age by month / cumulative

⑪ Adjust for birth year

# MMR / Autism Study

- ① 36 Missing State Variable
- ② Age Variable - what's the reference date for Age in 1998  
July 1, 1996
- ③ Epilepsy Variable ICD 9 Code
- ④ Missing IM forms or MMR data

mmr 1 Y  
 1 M  
 1 D

3270263  
 4302340  
 5400770

- ⑤ SES
  - Zipcode & Median Family Income
  - Tanya will talk study

⑥ Birth Certificate

## MMR/Autism Analysis 8/15/2001

## ① Record Reviews

## ② Analyses

① Output missing State variable

② Epilepsy Variable - ICD 9 Code

③ Missing Data

① Birthstate, Birthstate \* CasesonZ

② Birth Cert, Birth Cert \* CasesonZ

③ Subset Birth Cert Data

④ Missing Data for Demographic Variable

① Age Checkoff - July 1 is reference point

② MMR Vaccination by month

③ Tanya To Do

④ Birth Certificate Match

① Match with identical information

② Match with unidentical information

③ Create Out of State Variable

④ Check Gestational Age Variable

- why are cases missing data

- imputation looked problematic

① Possibly add income variable to data

② Isolated versus non-isolated analyses  
- Co-existing AD

Autism Analyses

8/21/2001

- ① Provided Tanya MMR missing data
- ② Tanya is working on BC match
- ③ Epilepsy needs to be added  
345.0 - 345.9

333.2 Progressive Myoclonic Epilepsy ~~333.2~~  
 V17.2 Other neurologic diseases - epilepsy

Things to Do 8/27/2001

- ① Adult Impact Study ~~7/8~~ -  
- meet with Armen and Eric at 1:00 PM
- ② VSD Site Visits - send e-mail
- ③ Autism Analyses
  - Ⓐ Search Epilepsy (ICD9 345.0 - 345.9)  
(= exclude 345.30)
  - Ⓑ Analyses
    - Ⓐ Mother's Age, Educ
- ④ Excise Death Paper
- ⑤ Ford Risk Factor Analyses
- ⑥ Weijing + Autism Prevalence in VSD  
- send MADDSP ICD9 codes

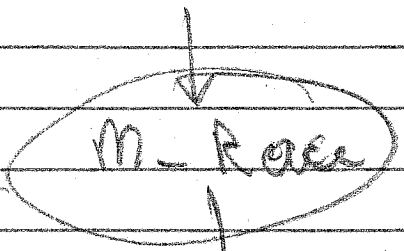
Nov 18 - Nov 24

# MMR / Autism Analyses 7/29/2001

① Race

② Entire Sample

Race



CDC Race - check

③ Birth Certificate



M-Race

Race

CDC Race

since a particular year

Race

C-Race

M-Race

CDC Race

④ State Bath state

⑤ SES ?? M-R state



To Do List 9/6/2001

- (a) Records Review / Sept 12
  - MMR/Autism Analyses
  - get revised analysis plan from Tamara
- (b) Autism Rates over time

(c) Thimerosal Proposals / ~~Sieve Sheet~~ / Now

- (d) Flu Econ Call / Sept 18th
  - look at ISD
  - call Hector

(e) Excess death paper

(f) Food Analyses

~~(g) Flu/Sept report~~

(1) Pandemic Flu Review - call Lori Huttinger & Carol Knowles

(2) John Moran - introduce yourself

(3) Winsteps - get copy from Vitalii

(4) IOM Meeting - what is Paul's role  
- what ~~are~~ HMNs have been involved

Things to do 9/10/2001

- ① Autism Records Review
- ② Autism Analyses
- ③ Thimerosal Follow-Up - call Elmira
- ④ Excess Death Paper
- ⑤ Autism Rates Over Time
- ⑥ USD Site Visits
- ⑦ Flu Economics Call Sept 18th
- ⑧ Ford Analyses
- ⑨ Influenza / Schizophrenia
- ⑩ ESD Adult Position - email John Moran
- ⑪ Vitali - get Wintreps
- ⑫ Bob Davis - MMR / Autism Methods
- ⑬ Weintraub - 122 Cities Baseline Program
- ⑭ Flu Adult Call - Armen  
Weintraub
- ⑮ James Baggs

3

# MMR / Autism Analyses

Things to Do 10/15/2001

- ① Excess Death Paper
- ② Meltzer Paper
- ③ MMR / Autism Analyses
  - a) County Codes
  - ~~b) Drop State from analysis~~
  - ~~c) Multicollinearity~~
  - ~~d) Unmatched Analyses~~  
~~White / Black~~
- ④ Influenza Modeling
- ⑤ Call Barbara Goodson

Things to Do 10/24/2001

① Call James Baggs (360) 455-4259

② MMR/Autism Analysis

MMR Analyses

10/24/2001

① Data Confidentiality - protection

② Intro

③ Methods - Prevalence

④ Journal - 3000

- New England Journal

IOM Report  
- Subgroup

Table 1

# Things to Do

10/29/2001

8

- ~~① Carolina Hoffman get into system / start Thimerosal~~
- ~~② Take mail to mailbox~~
- ~~③ Send draft excess death to Keiji + Daniel~~
- ~~④ Send e-mail to Martin Meltzer~~
- ~~⑤ E-mail Cedric Brown~~
- ~~⑥ Send Bill Broom Nonlinear factor analysis request~~
- ⑦ Thimerosal Follow-up Study
  - ~~① Call ~~Broom~~ Barbara, Gerrie, Chris~~
  - ② Edit Draft Protocol - mail Melnick
  - ③ Power Calculations for Study
    - 4 HMOs
  - ④ Need to determine which HMOs
  - ⑤ Phil needs to develop numbers for potential sampling frame
- ⑧ Prepare for Adult Call
  - ① Kari Bohlke Proposal
  - ② Lwa Jackson Comments
  - ③ Lwa Jackson paper
  - ④ Adult Impact Call
    - e-mail Armen + Eric
- ⑨ Hutwagner Aberration Detection Paper
- ⑩ MMR / Autism Analyses
- ⑪ RSD Adult Studies / ESP Person - response
- ~~⑫ Pascal Wortley Interview~~
- ~~⑬ Send Bob Davis Vitas - Secker Janice~~

- ① OMA
- ② ATOT
- ③ Power Ca
- ④ Vaccine Reliability
- ⑤ Question

Things to do 10/30/2001

- ① Thimrossal Follow-Up Study
  - a) 1 page Executive Summary
  - b) Decide which HMOs
  - c) OMB??

- ② OMB Issues
  - a) Ben Schultz
  - b) Martin Landry
  - c) Studies
    - a) Flu Econ Study
    - b) Others

- ~~③ Adult Call~~
  - ~~a) Kari Bohlke Proposal~~
  - ~~b) Lisa Jackson comments~~
  - ~~c) Adult Influenza call~~

④ Adult ESP/VSD Analyst

⑤ Autism Meeting at 1:00 / Autism/mmr Paper  
- ~~Data Confidentiality~~

~~⑥ Influenza Paper~~

⑦ Ford Study



MMR / Autism 10/31/2001

① Additional Analyses

ⓐ Print out 14 Black cases

② Code  
White Before  
White After  
Black Before  
Black After

③ References

Things to Do 11/2/2001

- ~~① Send Flu Econ talks David/ Bob's email~~
- ~~② Tanya's request for 11 Study IDs~~

② Call Mary Ann Bryant (8829)

③ Provide length of flu season to Martin for Hector's study

④ Ask Sharon Holmes about contracts

④.5 Excess Death Paper

⑤ MMR Analyses

- ① 4 Groups White early
- White late
- Black early
- Black late

~~⑤.7 Bill Brown - Software~~

⑥ Thimessoul Follow-Up Study

- ① 1 Page Executive Summary
- ② Which HMOs
- ③ 10/15 outcomes to test

⑦ HERS Monday Afternoon

⑧ OMB Issues - Ben Schwartz

⑨ Ford Study

⑩ Adult VSD/ESD Analyst

⑪ E-mail Bruce Aembling / or call HIV stu

⑫ HCUP Data      ⑬ Blank Proposal

Things to Do 11/6/2001

- ~~① Send excess death paper to Keiji and David~~
- ~~② Send e-mail to Ben Schwartz OMB~~
- ③ Abst - ~~Cris Arcia~~  
Barbara  
Gene Stewart } Define 10-15 outcomes of interest
- ④ Lunch with Curcio + Weintraub
- ~~⑤ Sharon Holmes - email again regarding Thursday at 11:00 AM~~
- ⑥ MMA Analyses
  - ⓐ Hgroups
  - ⓑ Black analyses
- ~~⑦ Email Armen + Eric~~
- ⑧ Ford Analyses
- ~~⑨ Call Charles Rahn~~

Mary 8829  
Anne  
Bryant

Things to Do 12/17/2001

- ~~② Linda Flapa - call/email~~
- ① Laurie Johnson e-mail
  - justification for Italy Study
- ~~② Hutwagner Paper - call/email~~
- ③ E-mail Cedric Brown
  - ~~① Verstracken Analyses~~
  - ~~② NCK/GHC Analyses~~
- ~~④ Call Barbara Goodson~~
  - ~~① Timeline~~
  - ② Parent Questionnaire
- ~~⑤ Excess Death Paper~~
  - ~~① revisions~~
  - ~~② references~~
- ~~⑥ MMAR / Autism Analyses - Single Antigen Vaccines~~
- ~~⑦ Flu Spread Model Talk~~

# MMR Analysis

## Variables

- ① Regression / Plateau
- ② Delay < 1
- ③ Age of 1st concern
- ④ Pre-existing condition

Descriptive  
Information

To do list - Brain Storm

1/4/2002

1 Reschedule flight to Michigan

2 Set up adult influenza call

3 Call Barbara / Cris  
- rec'd memos

4 Kill Weigony's abstract

5 Call Larry Anderson

6 Credit Union - transfer money

7 Call UVA Credit Union

8 Change Gas provider

9 Call Lori Hutwagner

10 Margaret Kolesak

11 MMR / Autism Analyses

15 Ford Study

12 Hutwagner Paper

16 Check on Denver

13 HEV / Influenza Paper Death

17 Haber / Jackson

14 HERS

(35)

Friday's Autism Meeting

Crown Plaza / Holiday Inn (800) 344-7829

Reservation # 67457970

Things to Do 2/13/2002

- ① Flowers for Valentines
- ② Taxes
- ③ Radiator Cap
- ④ Walk
- ⑤ Seed Lawn
- ⑥ Termite Inspection

- ① Excess Death Paper
  - a Edit Paper
  - b New Analyses
  - c Comparison Lane / Glezen / ~~Thompson~~ Clifford  
 - Senel Keiji an e-mail
- ② Hutwagner Paper
- ③ MMR / Autism Paper - Exemption / fetch
- ④ Influenza Hospitalization Paper
- ⑤ Parent Questionnaire - Home ??  
 - Review



# Things to Do      2/26/2002

- ① Excess Death Paper
- ② MMR/Autism Analyses
- ③ Thimerosal Follow-Up Study
  - ⓐ Summarize 18 cell info
  - ⓑ ADHD Data
- ~~④ Hutwagner Paper~~
- ⑤ Kam's 1 Page Summaries

## Thompson, William

---

**From:** Thompson, William  
**Sent:** Wednesday, May 01, 2002 4:02 PM  
**To:** Destefano, Frank  
**Subject:** RE: autism analysis

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Those all make sense as possible analyses. I will have to wait until Tany gets back in town to see how that information is coded and then run frequencies to see how many cases fall into each category.

-----Original Message-----

**From:** Destefano, Frank  
**Sent:** Wednesday, May 01, 2002 3:58 PM  
**To:** Thompson, William  
**Subject:** autism analysis

One way to address possible health-care seeking bias is to stratify by the source of information on the case: school source only, provider source only, or both. Perhaps the best way may be to stratify by all three sources, but the number with a provider source only may be too small. Another way would be to restrict to children identified at a school source (i.e., eliminate those who were identified at a provider source only). Or stratify by school only vs. any provider source (i.e., provider +/- school). What do you think?

## Thompson, William

---

**From:** Karapurkar, Tanya  
**Sent:** Friday, July 12, 2002 3:07 PM  
**To:** Thompson, William  
**Cc:** Destefano, Frank; Yeargin-Allsopp, Marshalyn  
**Subject:** school/dx variables on dataset

Hi Bill,  
Per our discussion last week on the addition of variables, I have added four new variables to the dataset.

They are:

PREVDX= Y/N: CHILD HAD A PREVIOUS DIAGNOSIS OF ASD  
BTHSOUR=Y/N: CHILD HAD INFORMATION ABSTRACTED AT BOTH SCHOOL AND NON-SCHOOL SOURCES  
SCHSOUR= Y/N: CHILD WAS IDENTIFIED AT SCHOOL SOURCES ONLY  
NSCHOOL= Y/N: CHILD WAS IDENTIFIED AT NON-SCHOOL SOURCES ONLY

I included a variable representing children that had information abstracted at both school and non-school sources- just in case. But in analysis, I would stick with the two unique groups of schools only and non-schools only.

Let me know if you have any questions.

Thanks,  
Tanya

To Do List      5/23/2002

- ① Get fit for tax
- ② MMR Autism Analyses
- ③ Lipkin Proposal
- ④ Lisa Prosser Project

To Do list 8/19/2002

- ① ~~Lisa Jackson Paper~~
- ② ~~E-mail Melinda Influenza Paper~~
- ③ ATSDR Meeting / Autism
- ④ Exclusions call
- ⑤ ~~Thompson Travel - send consultants note~~  
~~- talk with Grier~~
- ⑥ GHC Travel
- ⑦ ~~HKE Travel~~
- ⑧ ~~Excess Death Paper~~
- ⑨ ~~MARR / Autism Revisions~~  
~~@ Call Frank~~
- ⑩ Calls  
~~Michael Blank~~  
~~Frank~~  
~~Lanier~~

NIAAA



Things to Do 1/2/2003

Gene-Env Interactions  
Flu-Schizo

- ④ E-mail Bob Hofman } low Kappas mild cases
- ① E-mail Irv } MR (Kathy Lord) / Call Aee Higley
- ② Thimerosal Follow-Up Study

① Send Barbara slides - edit slides

\* \* \* \* \* ② Arrange travel - talk with Alison

③ Tell Barbara + Berrie about teacher consent

③ Call Keiji about letter to editor - A(H3N2) years - Workgroup Group Talk

④ Manuscripts

~~④ Lisa Jackson~~ ~~check author list~~ check on consent / financial disclosure

⑥ Excess Death Methods

⑦ Excess Hospitalizations ask Eric for 3 year interval

⑧ Mandell Paper next call ??, Irv ??

⑨ ~~MMR~~ MMR / Autism - check / fix numbers

Talk with Larry Schoneberger → ⑩ Blank Study - next steps, next call ?? / Flu Schiz

⑪ VSD Neurodevelopment Rates

⑫ Flu Impact Study ⑬ Methods Paper - Margaridete

⑤ Annual Evaluation

① Manuscripts

② In press / Near Submission

③ HIV Grant

④ Thimerosal Studies

⑤ Awards - Autism

⑥ Respond to Bob Schaeffer - call Bob

⑦ Visit to Washington DC / Hector / Abt

~~⑧ Check on FedEx package~~

## Things to Do 1/5/2003

- ① E-mail NIH regarding ~~MMR~~/Autism Study
- ② E-mail FDA Thank you Julie Betce
- ③ E-mail Bruce Barrett regarding IRB
- ④ Forward forms 308(d) for Abt to sign
- ⑤ Thimrossal Follow Up Agenda
  - ⓐ Abt 308(d)
  - ⓑ CDC IRB
  - ⓒ Framing in Oakland
  - ⓓ Sample Frame
  - ⓔ RX List
  - ⓕ Q's + A's
- ⑥ Edit Slides for Thimrossal Training
- ⑦ MMR/Autism Study - Correct Sample Size Numbers
- ⑧ NEJM Letter
- ⑨ ~~Annual Evaluation~~
- ⑩ Travel Reimbursement from Arentis
- ⑪ Primary Manuscripts
  - ⓐ Excess Death Methods - AJE
  - ⓑ Excess Hospitalizations - JED
- ⑫ Secondary Manuscripts
  - ⓐ HCUP Neurodevelopment - Pediatrics
  - ⓑ HCUP Schizophrenia ~~Psychiatry~~
  - ⓒ HCUP Alcohol/Drug
  - ⓓ ~~HCUP Alcohol/Drug~~

Things to Do 1/6/2023

- ① ~~Call Donavan Gandy~~
- ② ~~Eden Thimmesal Slides~~
- ③ MMR / Autism Sample Size Numbers
- ④ Influenza Marketing Paper
  - Ⓐ Write Methods
  - Ⓑ Write Results
- ⑤ Influenza Hospitalization Paper
  - Ⓐ Write Methods - Weintraub
- ⑥ HCUP Schizophrenia Codes
- ⑦ Call Insurance Company
- ⑧ Set up JAMA bears



Things to do 1/7/2003

- ① NEJM Letter
- ② ~~Thimerosal Call - send out revised agenda~~
- ③ ~~TARA / Autism - Sample Size Numbers~~
- ④ ~~NC 2 mailboxes Vaccine Safety - Samden~~
- ⑤ Abt 308 (d)
- ⑥ Thimerosal SAS Code
- ⑦ Rx File → Abt  
HIPAA - ask ??  
Source - Multin

### Other

- ① ~~Call BCBS (800) 282-2473~~
- ② ~~Sally Rosen # (201) 599-0590~~
- ③ Call Chuck Holzer (409) 747-8362
- ④ Ed Kuchin Dept of Health (717) 787-3350
- ⑤ Barry Mehler (231) 796-5155
- ⑥ Call Michael ~~Haber~~ Blank - Archives Gen Psychiatry

## Things to Do 1/8/2003

- ① ~~MMR, Autism Paper~~
- ② NEJM letter
- ③ ~~Influenza Modeling Meeting~~
- ④ ~~FDA Ft. Scott~~
- ⑤ Thimerosal Follow-Up Study
  - a) Betsey Raway - 308(d)
  - b) Thimerosal IS Code
  - c) Rx File - tu chase

## Phone Calls

- ① Barry Mehler (231) 796-5155
- ② Chuck Helzer (409) 747-8362
- ③ Michael Blank - Archives of General Psychiatry  
- Rural versus Urban differences

## MME / Autism Meeting - To Do

\* ① Sample Size Precon  $< 1$   
Developmental Disability  $< 1$

② Pdf for Fombone *Nsu* 2002 *Lancet*

③ Fix Figure Legend

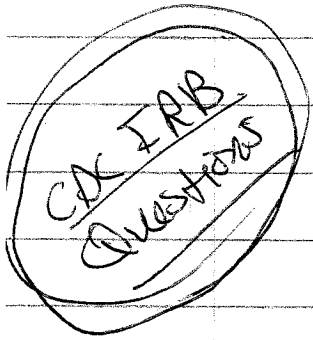
\* ④ Add sex interaction p-value  
- confidence interval \*

⑤ Drop Figure 1

⑥ Send update of CDC studies to Tanya

## Things to Do 1/9/2003

- ① ~~Plane to San Fran~~
- ② ~~NEJM Letter~~
- ③ ~~Slides for Thimerosal Training~~
- ④ MMR/Autism Todd List
- ⑤ Thimerosal Follow-Up Study
  - a) Betsey Burnaway - 308(d)
  - b) Thimerosal ~~SAS~~ Code



- ① Margarette
- ② Bill
- ③ Cris
- ④ SCK misclassification
- ⑤ RX File - Margarette
- ⑥ Flu Modeling Group
  - a) Tucumseh Study Data
  - b) Haber draft outline
- ⑦ Influenza Methods Paper
- ⑧ Influenza Hospitalization Paper
- ⑨ Trends in NDD Paper
- ⑩ Trends in Schizophrenia Paper
- ⑪ Jim Hanson NIH Study

- 
- ① ~~Call~~ Fill out insurance forms
  - ② Arentis reimbursement - call Lynn Guzek
  - ③ Lunch with Shelia Jones
  - ④ Beers with JAMA Authors
  - ⑤ Babys-R-Us Gift for Carolyn

Abt Discussion Items 1/10/2013

- ① Review IRB revisions requested by CAC
- ② Do not speak with media  
- send media to CAC

Things to Do 1/10/2003

- ① ~~Email Keiji + Borkoff - defer to Borkoff~~
- ② Call Betsy Dumaway - 308(d)
- ③ ~~Email Gerrie + Barbara - IRB Revisions~~
- ④ ~~Stop by Suzzette's office - Passport~~
- ⑤ ~~Thermostat Agencie~~
  - a) CAC IRB Changes
  - b) Training
  - c) Misclassification -
  - d) Reporting Abuse + Neglect
  - e) Rx File
  - f) SAS Exposure Codes
- ⑥ ~~MMR/Autism Reviews~~
- ⑦ NEJM Letter
- ⑧ ~~Email Bob + David about MMR/Autism Study~~
- ⑨ Influenza Methods Paper
- ⑩ ~~HEUP NAD / Psych Codes~~
- ⑪ Flu Modeling - Tucumseh Data
- ⑫ Arentis Travel
- ⑬ ~~Oakland Travel~~

- 
- ① Insurance Forms
  - ② Bridges - Baby's - R - US
  - ③ Dawson Gift
  - ④ Shay Gift

NCADDD 7/2/2003

MNR / Autom / Benman

EIA Assays

## Things to Do

7/9/2003

~~① Influenza Options Abstract~~

② Influenza Hospitalization Manuscript

① Update Results

② Revise Results + Discussion

③ Rate Difference Results

~~③ NCBDAD Denmark Funding~~

④ Thimerosal Follow-Up Study

① Contract Modification

② Child Abstraction Form ← discuss with Gerrie

③ Check Steve Black e-mails ← compare to Parent interview

⑤ OI Update

① Draft Manuscript

② Check deadline

⑥ Influenza Agency Manuscript

⑦ E-mail Colleen Boyle regarding manuscript

⑧ E-mail Achelt Influenza Impact PI's

## Phone Calls

① Capital One

② Jonathan Samet

③ Suomi / Higley

④ Traffic Ticket

⑤ Jay Weinstein



Things to do 10/13/2003

- ① Thimmesal Study
  - ④ ~~Agenda~~
  - ⑤ ~~Call Gervie about results letters~~
- ② ~~ACIP Slides~~
- ③ ~~Schedule Michael Haber Meeting~~
- ④ ~~NIA E-mail - Call Keiji~~
- ⑤ NYC Conference - City level Meets
- ⑥ MMR Autism Database
- ⑦ Hospitalization Manuscript - finish
- ⑧ Options Manuscript - talk with Keiji
- ⑨ ~~Patient Services~~
- ⑩ Gary Euler Study - Power Calculations
- ⑪ University of Rochester
- ⑫ Aging Model
- ⑬ Frank DeStefano Review Paper
- ⑭ ~~Adult Impact Study~~
- ⑮ OI Update for Dembling Study
- ⑯ Michael Blank OI Abstract
- ⑰ Immsel
- ⑱ Pauline Harvey - IRB Termination
- ⑲ JASA Tara Stull
- ⑳ Hospitalization Data
  - Hcup < <sup>100%</sup> California
  - Medicare

} Mike Marra  
Meets



Brian Hooker Discussion

10/17/2003

- ① Measles Infection in Autism kids
- ② CDC MMR/Autism Website
- ③ Wakefield Study

Things to Do 10/29/2003

- ~~① Check April or May credit card~~
- ~~② Get Andy's work address~~
- ③ Frank Autism/MMA Review
- ④ American Journal of Epi-Review Paper
- ⑤ EID Abstract
- ⑥ Marshall McBean Manuscript

mike.marcy@att.net

Things to Do 11/5/2003

- ~~① Portugal Abstract~~
- ~~② E-mail NIP OD about NCBDDD Funding~~
- ~~③ Call Sally Bernard~~
  - ~~① Thimerosal-Autism Oversight Committee~~
  - ~~② Thimerosal Follow-Up~~
    - ~~① Data Quality Procedures~~
    - ~~② Current Analysis Plan~~
- ~~④ E-mail Frank + David about Thimerosal-Autism~~
  - ~~① Oversight Committee~~
  - ~~Safeminds~~
  - ~~NAAR~~
  - ~~AAP~~
  - ~~American Psychological Association~~
  - ~~Others~~
- ~~⑤ DeStefano Review Paper~~
- ~~⑥ Influenza Hospitalization Paper~~
- ~~⑦ Drena Schander Meeting 3:00 PM~~
- ~~⑧ ASA Abstracts - Honolulu~~
  - ~~July 28th - August 1st~~
  - ~~Nov 14th deadline~~
- ⑨ Michael Blank Discussion
  - ① New Abstract
  - ② Call Lillian
- ⑩ AJE Review - Nov 11th
- ⑪ ASA Abstract - Nov 21st
- ⑫ Options Manuscript - Nov 30th
- ⑬ McBeem Manuscript
- ⑭ Hettelfinger Manuscript

Diana Schendel

11/5/2003

9

- ① Autism Validation Study  
in 500 children
  - still ongoing
  - could create autism subgroups
  - abstracting data
- ② SES Study
- ③ Case Control Study
  - someone is doing analyses
- ④ Validation of Vaccination Records
- ⑤ Danish Cohort
  - Frequency

## Things to Do 12/7/2003

- ① ~~Touch Base with Brooke Barry~~
- ② Options Manuscript
- ③ Thimessal Agenda
- ④ Frank MMA / Autism Analyses
- ⑤ Reply to Kristen e-mail
- ⑥ ~~Call about about Jan 13th consultant meeting~~
- ⑦ E-mail GA State

## Other

- ① Hospitalization Manuscript
- ② Blank Analyses
- ③ NIH Analysis
- ④ Day of Death Manuscript
- ⑤ PTSD Manuscript
- ⑥ CFS Manuscript
- ⑦ HCUA / NHDS Vaccine Safety

## Home

- ① Wisconsin Trip
  - a) Oil Change
  - b) Hotel Reservations - Mo's House
  - c) Call Dick
  - d) Call Michael Downey
- ② ~~Tuesday Beatrice~~
- ③ Real Estate Agents

Things to Do 12/09/2003

8

- ~~① Make Lunches + Get Tumbling Clothes~~
- ~~② Laundry / Clean~~
- ~~③ Money for Beatrice~~
- ~~④ Drop Jessica at school~~
- ~~⑤ Breakfast Stop at NEP to pick up Autism documents~~
- ~~⑥ Lunch at 11:30~~
- ~~⑦ Pick up Jessica at 1:00~~
- ~~⑧ Take directly to Tumbling~~
- ~~⑨ 2:00 Thimerosal Call - Drive to NEP~~
- ~~⑩ 3:00 Autism Call - Get Shay Address~~
- ~~⑪ David Shay Dinner - order from Longhorns~~
- ~~⑫ Flowers / Dinner for Lori~~

~~List of questions~~

~~Autism documents~~  
~~Shay Address~~

---

Wednesday

- ① Pediatrics Manuscript
- ② MMR Variable List
- ~~③ Eric Turkheimer visit~~
- ④ Options Manuscript

Things to do

12/11/2003

- ① MMR / Autism, vaccine list
- ② Review MMR / Autism Manuscript
- ③ Options Manuscript
- ④ 3:00 PM Thimerosal - Autism Meeting
- ⑤ Sign up for food for Sunday holiday party
- ⑥ Shop gift
- ⑦ Course Outline
- ⑧ VSD Contract
- ⑨ Syndromic Surveillance Abstract
- ⑩ Blank Analyses - talk with Weintraub
- ⑪ E-mail John Mullooly

Home

- ① Sunday Holiday Party
- ② Oil Change
- ③ Bills
- ④ Plan Hanukkah Party

Other

- ① Blank Analyses
- ② NIH Analyses



## Thompson, William

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**From:** Grossman, Amy [AGrossman@nas.edu]  
**Sent:** Monday, January 05, 2004 1:26 PM  
**To:** Thompson, William  
**Subject:** FW: event code 32436



event code 32436

Hi Dr. Thompson,

Below is your hotel confirmation for 2/8/04.

Thank you,  
Amy  
(202) 334-1361

RECORD LOCATOR: DZEPKK

INV 05JAN  
WILLIAM THOMPSON/

DATE: 05 JAN 04

CONSULTANT: 92

CUSTOMER NBR: 9B3850

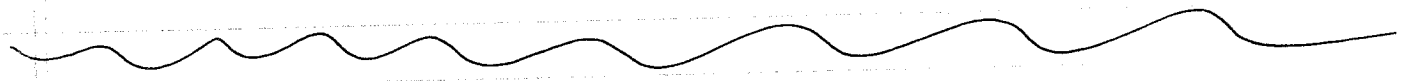
ITINERARY  
32436-5294174

PREPARED FOR: THOMPSON/WILLIAM

ATTENDING 32436 IMMUNIZATION SAFETY REVIEW 09FEB-10FEB 08 FEBRUARY 04 - SUNDAY  
HOTEL WASHINGTON  
ONE WASHINGTON CIRCLE HOTEL      1 NIGHT      OUT-09FEB  
ONE WASHINGTON CIRCLE, NW      1 ROOM      SINGLE WITH BATH  
WASHINGTON DC 20037      RATE-130.00USD PER NIGHT  
PHONE 202-872-1680      GUARANTEED LATE ARRIVAL  
FAX 202-887-4989  
CONFIRMATION ROOMINGLIST  
NONSMOKING ROOM ON REQUES

MMR / Autism Data sharing 1/6 /2004

- ① Cases were in ~~1995~~ here in ~~1996~~ schools 1996
- ② Controls could have been added as late as 2002  
- ask Tanya for abstraction date



## Things to Do 1/8/2004

- ② Write up 2003 Evaluation
- ① Thimerosal Follow-up
  - ~~④ Check parent interview on psych diagnoses~~
  - ~~⑤ Review Consent form~~
  - ~~⑥ Call Barbara~~
  - ~~⑦ Organize Psych Abstraction call~~
  - ~~⑧ Clear Letter through CDC IRB ??~~
  - ~~⑨ Check on Option II~~
- ~~② Michael Blank Proposal~~
  - ~~④ Revise Proposal~~
  - ~~⑤ Check with Gina on clearance~~
- ③ NHDS Hospitalization Manuscript
  - ④ Revise discussion
  - ⑤ Suggest JID
- ④ Options Manuscript
  - ④ Write Discussion
- ⑤ MMR/Autism IOM Slides
  - ④ Continue Powerpoint Presentation - set up meeting
  - ✓ ⑤ Ask Frank about Weldon presentation
  - ✓ ⑥ Should we brief Gerberding? Talked with Fran
  - ④ Forward IOM Website to Birth Defects folks
- ~~⑥ ~~Huber~~ Hutwagner Manuscript~~
  - ~~④ Finish revisions~~
- ⑦ NIH Meeting
  - ④ Review data
  - ⑤ Test Models
    - ① Within Subject Variance
    - ② Between Subject Variance
  - ④ Pull up basic article
  - ④ 11 March 11:00 about Frank's visit

## Planning for IOM MMR/Autism Meeting 1/12/2001

- ① Read Manuscript closely again
- ② Describe Selection Effects
  - Ⓐ Model BC variable
  - Ⓑ Figure of tail distribution
  - Ⓒ Race differences (internal use only)
- ③ Get abstraction date from Tanya
- ④ Edit down SAS Program
- ⑤ Power Point Slides - start draft
- ⑥ Q's + A's - Review with NKBOAD
- ⑦ Review previous Notes

## Things to Do 6/14/2004

- ① Universal IRB Renewal Form
  - ① ~~MMR/SAS Program + Powerpoint Slides~~
  - ② See IOM Notes
  - ③ ~~Add March 8+9 to calendar - Leni Testing~~
  - ④ Write University of Rochester Letter
  - ⑤ Hospitalization Manuscript
  - ⑥ Options Manuscript
  - ⑦ ~~Universal Follow-up Budget - Call Barbara~~
  - ⑧ ~~Farkheimer Visit - Lunch with Marshelyn~~
  - ⑨ ~~Rochester Genetics - Action Study~~
  - ⑩ Blank Analyses + Visit
- 

- ① Car Emmissions
- ② Universal Heating + Cooling
- ③ Roof Estimate
- ④ Dental Appointment

Things to Do 1/16/2004

- ✓ 1 Thimerosal IRB Continuation Form
- ✓ 2 Thimerosal Budget
- 3 Hospitalization Manuscript - Discussion
- 4 IOM Slides for next Wednesday
- ~~5 Frank's review paper~~
- ~~6 Jay Weinstein / Alzheimer's meeting~~

- 
- ① Balloons for Jessica
  - ① Car Emissions
  - ② Universal Heating + Cooling
  - ③ Roof Estimates
  - ④ Dental Appointment
  - ⑤ Call Rhonda Taubitz (678) 441-9990

Things to Do 1/17/2004

- ✓ ① Thimerosal IRB Renewal
- ✓ ② Thimerosal Neurodevelopmental Budget Meeting
- ✓ ③ Sallie Bernard Draft Memo
- ④ IOM Slides  
- Abstraction Data Analyses
- ⑤ Hospitalization Manuscript - Friday
- ~~⑥ E-mail Bob + Roger + me on Tuesday~~
- ~~⑦ E-mail Marshalyn about Lunch~~
- ~~⑧ Edit Sallie Bernard Letter~~

Things to Do 1/20/2004

- ① MMR / Autism Analyses + IOM Slides
  - ⓐ Abstraction Date
  - ⓑ Print Tanya Poster
  - ⓒ Eclit slides
- ② Hospitalization Discussion
  - ⓐ Add Relative Risk Hosp/Deaths in discussion
  - ⓑ Add paragraph regarding hospital days
- ③ IRB Renewal for Thimewood Follow-Up



27

8562  
Larry 8767

MMR / Autism Analyses

1/20/2004

Abst date variable

YYYY

MM

DD

## Things to Do 1/24/2008

### ① MMR/Autism Analyses

- ① Add continuous age to further control for residual confounding
- ② Test Age difference between BC+ / BC- by Case
- ③ Summarize Linear Regression results
  - ④ Continuous MMR Age - Truncated versus Not
  - ⑤ log MMR Age - Truncated versus Not
  - ⑥ Remember - can't <sup>assign</sup> age for never vaccinated
- ⑦ Add Manuscript Tables
- ⑧ ~~Change format~~
- ⑨ Check # Regression / Plateau  $\leq \geq 6$  months
- ⑩ Check ACIP recs for birth cohorts

graph  
 $\rightarrow$  36 month  
 or never

② Hospitalization Manuscript - Edit

③ Options Manuscript - Edit

## Things to Do 1/25/2004

- ① ~~Thompson Follow-up~~
  - ⓐ ~~Fax IRB approvals~~
  - ⓑ ~~E-mail current consent form~~
- ② MMR/Autism IOM Slide Presentation
  - ⓐ Add Manuscript Tables
  - ⓑ Note late vaccination includes never vaccinated
  - ⓒ Check sample size
    - ① < 36 months
    - ② Total Sample
    - ⓑ BC Sample
    - ⓒ Regression / Plateau
  - ⓓ Analyses to Review
    - ① Age Difference BC \* Casecon 2
    - ② Add Continuous Age to Matched Analyses
    - ③ Regression Analyses Age MMR Vaccination
      - ⓐ Continuous Age ← truncated
      - ⓑ log Age ← not truncated
  - ⓔ ACIP recs for MMR vaccination  
- 1986 - 1993
- ③ ~~Review Shay edits of Options Paper~~
- ④ Complete Hospitalization Manuscript

1/28/2004 Notes

---

- ① Presentation to NCBDAA 1/28/2004
  - ② Presentation to NIP Comm + CDC Comm 1/29/2004
  - ③ Presentation to Cochi + Wharton 1/30/2004
- 

IOM Presentation - Unresolved Issues

- ① What should we do about race effect??  
- shows large effect for blacks and  
no effect for whites
  - ② Sample Size Issues
  - ③ Summary of Alternative Analyses  
- review previous analyses
- 

Stay Calm

Don't over react

We all have good intentions

Parents of autistic children have very difficult lives

Things to Do                      2/3/2004

~~① Call Stephanos 1/15 at Bldg 12~~

~~② Get Cash~~

③ IOM Talk

① Edit Slides

- review Tanya's e-mail

- review Frank's e-mail

② Edit previous autobiographical sketch

④ Add Calendar Dates

① Thursday Feb 12 - Davis Academy

② Thursday Feb 12 - Autism call

~~⑤ 3:00 PM Autism Call~~

~~- Review Frank's e-mails~~

⑥ E-mail Kocher regarding revised proposal for distribution to Autism panel

\*\*\* ⑦ Don't forget to submit hospitalization paper through clearance on Friday.

⑧ NIH Travel

Thimerosal Follow-up Study 2/3/2004

Paula Ray ✓  
 Lisa, Patty ✓  
 Virginia ✓  
 Mike Nancy ✓

Send out pdf file. Tested kids 752

---

Called Murray Kampf (404) 639-7200 3:40 PM  
 - left message

---

Frank DeStefano called me in the evening and told me that Bob Chen wanted to fire me. I asked why Bob would be able to fire me? Frank didn't give any clear reason why. He suggested my e-mails provided clear reasons to fire me.

Penina Haber subsequently told me that Frank had asked her to call first and she declined.

1

Things to Do 2/12/2004

- ① Bill Martin 9:00 AM
  - ② Frank DeStefano 12:00 Lunch  
- at lunch I told Frank I was pissed that he told me I was going to be fired.
  - ③ Jon Burton 1:30 - 4:30
  - ④ Cash for Mrs. B. \$180
  - ⑤ Hospitalization Manuscript
- 

Things to Do 2/13/2004

- ① Bill Broom Lunch 12:30
  - ② Movie with Jon at Hollywood 24
  - ③ Mrs. B at 5:00 + Cash
- 

Jessica's Birth Certificate  
Universal Heating + Cooling