

Poster Presentations

On Moodle

Power point Templates:

Template 1: 3 Column, 40" x 36"

Template 2: 3 Column, 40" x 36"

Template 3: 3 Column, 40" x 36"

Poster design programs...

- □ Power point easy, sometimes poor resolution
- Input graphs, text, easy to design, edit and move objects around

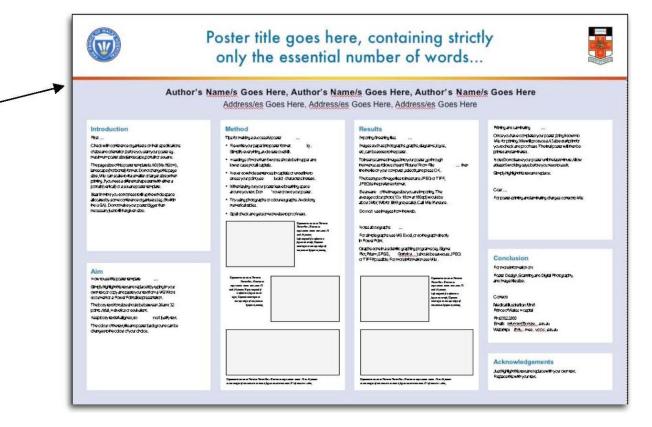
Illustrated abstract

POSTER 9

CORNELL POLYMER OUTREACH PROGRAM

Sharaniay Shaee, Claude Cohen and Farrando Excelledo

School of Chemical and Biomolecular Engineering



Poster Outline

- Title and Author
- Introduction or Background (Not critical for QAC380)
- Research questions or hypotheses
- Methods (Sample, Measures and Analyses)
- Results
- Discussion (findings in context research and limitations)
- Conclusions or Implications
- References (if you have any)

Title ...

The Association between Psychiatric Disorders and Nicotine Dependence

Do Psychiatric Disorders Moderate the Relationship Between Cigarette Exposure and Nicotine Dependence?

Research Questions/Hypotheses

- Which psychiatric disorders are independently associated with nicotine dependence after adjusting for comorbidity?
- Do psychiatric disorders moderate the association between smoking quantity and nicotine dependence?

Methods

Sample

- The sample was drawn from the first wave of the National Epidemiologic Study of Alcohol and Related Conditions (NESARC), a nationally representative sample of non-institutionalized adults in the US.
- Young adults (age 18 to 25) who reported daily smoking in the past year (n=1320).

Methods

If you data managed, talk about final construct!!

Measures

- Lifetime psychiatric disorders were assessed using the NIAAA, Alcohol Use Disorder and Associated Disabilities Interview Schedule DSM-IV (AUDADIS-IV) (Grant et al., 2003, Grant et al., 1995).
- The following disorders were examined: major depression, dysthymia, generalized anxiety disorder, panic disorder with or without agoraphobia, social phobia, specific phobia, alcohol dependence, other drug dependence (i.e. amphetamine, opioid, sedative, tranquilizer, cocaine, inhalant, hallucinogen, cannabis, or heroin), and antisocial personality disorder (ASPD).
- The tobacco module contains detailed questions on tobacco use and symptom criteria for DSM-IV nicotine dependence. Current smoking was evaluated through quantity ("On the days that you smoked in the last year, about how many cigarettes did you usually smoke?").

Methods

Analyses

- Chi Square analyses were conducted to examine the bivariate association between each psychiatric disorder and nicotine dependence.
- Logistic regression models were then estimated to test the association between individual psychiatric disorders and nicotine dependence, with control for comorbid psychiatric disorders, current smoking quantity, other tobacco use in the past year (i.e. cigars, snuff, pipe or chewing tobacco), age, ethnicity and gender.
- Next, two-way interactions between psychiatric disorders and current smoking quantity were included in the models to evaluate whether the relationship between nicotine dependence and current smoking was similar for individuals with and without psychiatric disorders.

Results...

- Descriptives sparingly (univariate)
- Focus on multivariate and bivariate (these are your findings).
- Figures
 - Avoid loads of text
 - Share findings in a visual and penetrable way

Results (univariate)...

- 61% (SE 1.54) of daily, young adult smokers met criteria for DSM-IV nicotine dependence in the past year.
- 55% met criteria for one or more psychiatric disorder.
- □ The most common disorder among daily smokers was alcohol dependence (45% SE 1.9)

Results (bivariate)...

When examining the association between lifetime major depression (majordeplife - categorical) and past year nicotine dependence (tab12mdx categorical), a Chi Square analysis revealed that among daily, young adults smokers (my sample), those with past year nicotine dependence were more likely to have experienced major depression in their lifetime (36.2%) compared to those without past year nicotine dependence (12.7%), $(X^2 = 88.60, 1 df, p = 0001).$

Reporting results....

When examining the association between current number of cigarettes smoked (usquan - continuous) and past year nicotine dependence (tab12mdx categorical), an Analysis of Variance (ANOVA) revealed that among daily, young adult smokers (my sample), those with nicotine dependence reported smoking significantly more cigarettes per day (Mean=14.6, s.d. \pm 9.15) compared to those without nicotine dependence (Mean=11.4, s.d. ± 7.43), F(1, 1313)=44.68, p=0001.

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Reporting results....

When examining the association between current number of cigarettes smoked and past year nicotine dependence, an Analysis of Variance (ANOVA) revealed that among daily, young adult smokers, those with nicotine dependence reported smoking significantly more cigarettes per day (Mean=14.6, s.d. ± 9.15) compared to those without nicotine dependence (Mean=11.4, s.d. ± 7.43), F(1, 1313)=44.68, p=0001.

Reporting multivariate results...

- After adjusting for potential confounding factors, major depression (Beta=1.34, p=.0001) was significantly and positively associated with number of nicotine dependence symptoms.
- After adjusting for potential confounding factors, major depression (O.R. 4.0, Cl 2.94-5.37) was significantly and positively associated with the likelihood of meeting criteria for nicotine dependence.

Discussion...

- Individuals with major depression, specific phobia and ASPD were more likely to have nicotine dependence than those without these disorders.
 This was consistent across levels of smoking.
- In contrast, alcohol dependence moderated the association between smoking quantity and nicotine dependence. Individuals with alcohol dependence were more likely to have nicotine dependence at low levels of daily smoking, but not at the highest levels when compared to individuals without alcohol dependence.
- These findings confirm the association between specific psychiatric disorders and nicotine dependence and extend this work by showing higher rates of nicotine dependence at relatively low levels of smoking for those with depression, specific phobia, ASPD and alcohol dependence.
- Notably, the present findings are based on cross-sectional data and do not reflect the smoking levels at which nicotine dependence emerges.
 Third variables not examined that may account for these associations cannot be ruled out.

Conclusions or Implications...

Further research is needed to determine whether sensitivity to nicotine dependence is based on physical and/or psychological differences related to psychiatric disorders.

OR

Young adults with major depression, alcohol dependence, specific phobia or ASPD may be an appropriate group for smoking intervention that more directly targets emerging nicotine dependence symptoms at low levels of smoking.

Limitations

- Absolutely critical
- Clients need to understand the limits on their data so they don't over-interpret/misinterpret

For example:

- The sample size was too small to adequately test some hypotheses. Low statistical power could make a true association appear nonsignificant.
- Replication is critical in order to gain more confidence in the results found in this study.
- There are other possible ways to define perceptions. This research only tested one possible definition. Different definitions could produce different results.
- It is possible that participants may have interpreted a question differently from what was intended.



The Poster Layout/Design

1. What font to use

Type size should be 28 points or larger:

18 point

20 point

24 point

28 point

36 point

1. What font to use

DO NOT USE ALL CAPITAL LETTERS BECAUSE IT'S REALLY HARD TO READ!

Dark letters against a light background work.

Light letters against a dark background also work

Avoid red-green combinations because a large fraction of the human population is red-green colorblind.

Lots of people can't read this - and even if they could, it makes your eyes hurt.

Other color combinations can be equally bad:

Other color combinations can be equally bad!

I See A Ghost

- More contrast on monitor than poster
- Colors to avoid with white are:
 - Light Green
 - Light Blue
 - Pale Yellow

Usually can't read this..

Your poster should have good contrast

2-3 colors, no more!



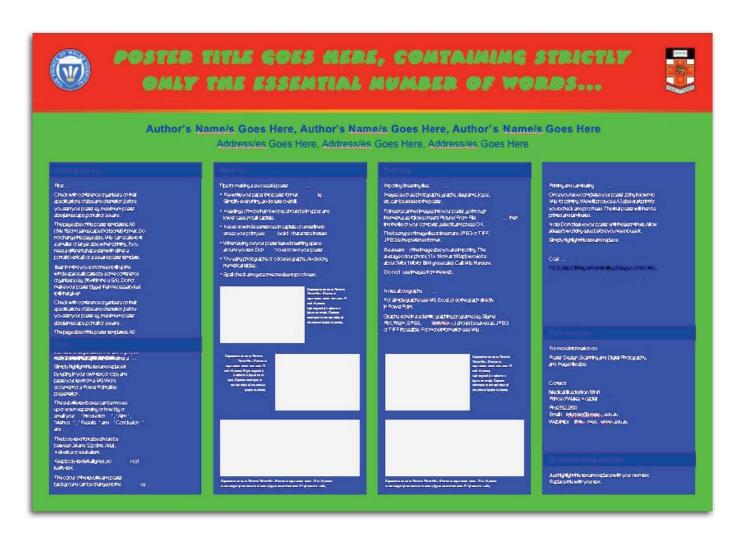
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Whoa! Where's my sunglasses?

This attracts attention but wears out the eye



Blue on Red appears blurry to the human eye.

Yellow on white is hard to read

Red on Blue appears blurry to the human eye

3. Layout

Keep the layout and style as consistent as possible

Every section should have a heading.

Sentences are generally preferred.

Font type the same throughout

Excellent...

no state interest



Southern Flounder Exhibit Temperature-Dependent Sex Determination

 Adam Luckenbach*, John Godwin und Russell Boeski. Department of Zoology, Box 2617. North Catalina State University, Baleigh, NC 27695.



Introduction

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Objective

The study was conducted to determine whether southern floatifier exhibit temperature dependent sex determinates (DSCA, and if growth as affected by schuling temperature.

Methods

- Southern florence bloods as knew strip spawned to collect eggs and spenn for in ours furnitization
- Habited large were record from a natural dart conference receive to high process pelleged land and and containing at least wave duity.
- Upon coaching a mean total length of 40 mm. the parentle founder were stocked at equal describes into one of three temperatures (K 23, or 28°C for 245 days.
- Omath were governed and later sectioned at a contraction.
- See dataguados; markers vice used to dostaga de (ratas (specimologosess) (non femiles (vogenesis)

Histological Analysis

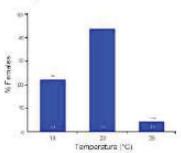




Male Differentiation

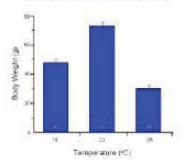
Francis Differentiation

Temperature Affects Sex Determination

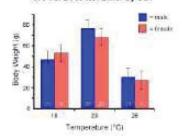


(**P < 0.0) and ***P < 0.00) expenses a guifkam Southern blom a 1.1 materiamolo est (also)

Rearing Temperature Affects Growth



Growth Does Not Differ by Sex



Results

- See was discernible in most fish greater than L20 trunlong.
- High (28%) temperature produced #% females.
- · Low (1800) temperature produced 22% firmles.
- * Mid-range (23°C) samperatum produced 44% females.
- Fish natural at high or law temperatures observed reduced growth compared to those at the mid-range temperature
- Up to 245 days, no differences in general assisted between seven.

Conclusions

- These fordings indicate that sex descrimation is continent flounder is temperature-scapiling and temperature but a presonant effect on growth.
- A mid-maps reasons temperature (20%) appears to maximize the mander of females and promote better growth in young confirm flounder.
- Although additionales on known to grow larger than make, to difference in growth between seves occurred in age-0 is 4 years mathem flurnder.

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Southern Flounder Exhibit Temperature-Dependent Sex Determination

J. Adam Luckenbach*, John Godwin and Russell Borski Department of Zoology, Box 7617, North Carolina State University, Raleigh, NC 27695



Introduction

Southern flounder (Perolichthy, lethosticus) support valuable fisheries and show great promise for aquaculture. Female flounder are known to grow faster and reach larger adult sizes than males. Therefore, information on sex determination that might increase the ratio of female flounder is important for aquaculture.

Objective

This study was conducted to determine whether southern flounder exhibit temperature-dependent sex determination (TSD), and if growth is affected by rearing temperature.

Methods

- Southern flounder broodstock were strip spawned to collect eggs and sperm for in vitro fertilization.
- Hatched larvae were weaned from a natural diet (rotifiers/Artenia) to high protein polletes feed and fed until satiation at least trace fails.
- Upon reaching a mean total length of 40 mm, the juvenile flounder were stocked at equal densities into one of three temperatures 18, 23, or 28°C for 245 days.
- Gonads were preserved and later sectioned at 2-6 microns.
- Sex-distinguishing markers were used to distinguish males (spermatogenesis) from females (openesis).

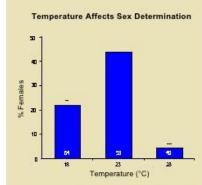
Histological Analysis





Make Differentiation

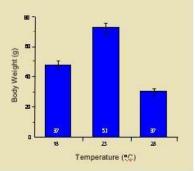
Famile Differentiation



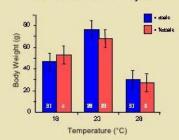
(**P < 0.01 and ****P < 0.001 represent significant deviations.

*rom a 1.1 male female sex ratio)

Rearing Temperature Affects Growth



Growth Does Not Differ by Sex



Results

- Sex was discernible in most fish greater than 120 mm.
- High (28°C) temperature produced 4% females.
- Low (18°C) temperature produced 22% females.
- Mid-range (23°C) temperature produced 44% females.
- Fish raised at high or low temperatures showed reduced growth compared to those at the mid-range temperature.
- Up to 245 days, no differences in growth existed between sexes.

Conclusions

- These findings indicate that sex determination in southern flounder is temperature-sensitive and temperature has a profound effect on growth.
- A mid-range rearing temperature (23°C) appears to maximize the number of females and promote better growth in young southern flounder.
- Although adult females are known to grow larger than males, no difference in growth between sexes occurred in age-0 (< 1 year) southern flounder.

Acknowledgements

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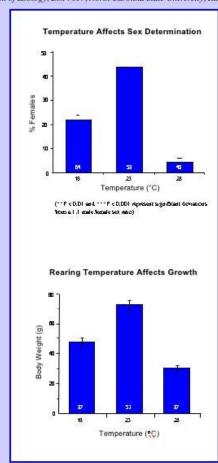
Histological Analysis

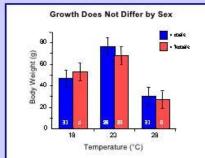




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Acknowledgements

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No busy backgrounds...

NC STATE UNIVERSITY

Snook Growth in Habitats with Differing Abiotic Variability

Alesia Read, North Carolina State University, anread@unity.ncsu.edu

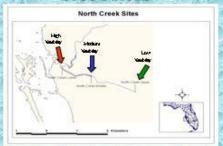


PROPOSED OBJECTIVE

To create a useful tool for assessing potential stocking habitats based on degree of variability in water quality.

- * Snook are a popular game fish found in the estuarine creeks of Florida
- Snook population has been on the decline due to overfishing and habitat degradation
- Numerous stock enhancement endeavors are currently underway without sufficient preliminary research
- Abjotic variability is a prominent feature of these estuaries
- Temperature, dissolved oxygen and salinity might play influential roles in the survivorship of the juvenile snook

STUDY SITES



METHODS

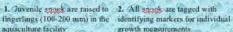










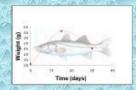


3. Fish are placed in cages within variable habitats at the research sites for 40 days

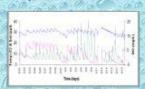
4. Fish are weighed and measured for growth

RESULTS

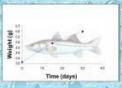
North Creek Lower (High Variability)



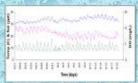
Negative Growth: Dissolved Oxygen (mg/L) Salinity (pgt) 2-21 Temp ("C) 25-34



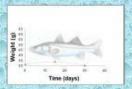
North Creek Middle (Medium Variability)



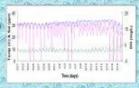
Positive Growth: Dissolved Oxygen (mg/L) Salinity (ppt) 16-28 Temp (°C) 30-38



North Creek Upper (Low Variability)



Slow Growth: Dissolved Oxygen (mg/L) Salinity (opt) 16-30 Temp (°C)



CONCLUSION

- Snook exhibit increased growth in habitats with a medium degree of abiotic variability
- Stock enhancement projects will be more efficient by releasing juvenile snook primarily in nursery habitats with a medium degree of abjotic variability



PREVALENCE OF OBESITY AMONG INNER CITY LATING CHILDREN AND ADOLESCENTS

Nazent M. Mirza MD, ScD, Juli Merchant MS, Lesla Boker, PhD

Children's Natural Medical Center and George Westungton University School of Medicine and Florith Sciences. Washington, DC

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Early Outcomes of the First 1471 Consecutive Kyphoplasty Procedures in the United States. for the Fixation of Painful Osteopenic Vertebral Body Compression Fractures (VCF)

Steven R. Gartin', M.D., Isasko H. Lieberman', M.D., Mark A. Reliey', M.D., Joseph M. Lane', M.D., Frank M. Philipe', M.D., Hallett B. Mathoue', M.D., Harson A. Yuan', M.D., Sarkon H. Sache', M.D., for the Hyphopiasis Study Group. Vincensity of California, San Dago, Washad Carter, San Dago, CA. "Convoluted Circle, Convoluted Circle, Orientated On Vincensity of Manual Survey State University of Street State University of Sta



700,000 VOFs per year

- 275,000 diagnosed, +80% due to pain
- Spinal deformity associated with
 - Significant mortistity
 - 22% increased mortality (Kado, Ave by Med 1996)
- Current treatments ineffective
 - Court surgeries fail
- Medical management pullative Vertebrophety
- - Sintered transpositiouser comment fill
 - Relieves pain Requires high pressure and nursy cameril.
- High risk of cornert leaks
 - Us to 73% where documented
 - (Most at at., Redictopy 1997) Waser complications (Chinae, J Int Neurosad 1997)
- # 1.3% in pateoporosis
 - 10% in esstadatic cancers

KINDSOFLASTY

Ephoplasty is a minimally invasive orthopadic procedure for reducing and floing painful vertebral body compression fractures accordany to estrupenia. Using a posterior approach, one or too refistable flore Tanga (Fig. 1) are inserted into the fractured contested body, generally using a bilateral transpositualer approach (Fig. 2). The surgoon carefully inflates the balloon tarrips (Fig. 2) using radiopaque contract medium with image. volume and pressure control. The increased belicon tamp volume compacts the inner cancellous tone as it pushes the fractured cuter control tone tack toward its normal position. The inflation path is also controlled by placement, volume and balloon design. After reduction, the balloon tamp is removed, and the resulting cold is filled with thick PMBH under fine manual control and loss pressure. The steps of Kyphoplashy are illustrated in Fig 3.

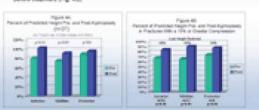


Exectors

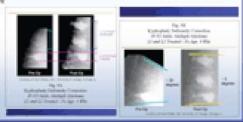
Kurhspiedy Llarg the IST

STUDY DESIGN AND METHODS

A retrospective multi-center review to assess early outcomes with Kyphoplasty. Fain was localized by physical examination. The presence of marrier edoma and colleges was confirmed on MRI: General or deep local ansetheea was chosen based on anatomy, number of levels and patient status. The first 125 patients at our contine sens asked to characterize their back pain as improved, the same or worse 24 hours post-up and at last follow-up. Fractured and receipt normal vertebral body heights were measured arterior, milline and posterior in the first 27 vertebral body fractures treated by one surgeon (MAR). The height of the received morning verticiting body was used to calculate the % of predicted height for all the varieties) bodies (Fig. 4A) and for the sub-set where which had leaf 15% or more of height before treatment (Fig. 48).



The pre-treatment height was eubbacked from the predicted height, then divided by the post-treatment height authracted from the predicted height, to find the percentage of ited height restored. One set of X-rays by one surpoin (FMF) are used to show an example height restoration (Fig. 50) and deformity correction (Fig. 50). Device-related major complications from all procedures are reported. PMIRI loaks in the first 10 procedures performed by one surgeon (Int.) were assessed with X-ray and Mills.



PRELABINARY RESULTS

- NOT bedown (beds 16th 1)
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- 175 data materiago constation Exemples
 - Saltenes Treating.
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CONCLUSIONS

Exploylests is an important treatment option that provides immediate mobility and return to notivities of delly living to patients with southly pointly variabed body comprosion fluctures accordant to encourage in consequence. Exploylests fluctions fluctures relative and deliverity correction. While reduction is more likely in acute function (four months or loss), it has been seen in fractions over one year old. Explophery also provides regist pain relief in the morely all patients, and this result in independent of fraction realization. The realisty profile of Kopskeplanty acompanies for orderly to the published safety profile of curiefroplants.

LESSONE LEAFSED FROM AIRWAY PRESSURE RELEASE VENTILATION (APRV)

Lewis J. Kaplan, MD*F, Heatherlee Bailey, MD, FAAEMP Medical College of Pennsylvania-Habnemann University Departments of Surgery and Emergency Medicine'F, Philadelphia, PA USA

INTEODUCTION

Acres (Revenue Revenue Revenue Arriver) APRY (2004). BIPAP) has been previously demonstrated to be a metal another at repetuge passents with accuration, juriory (ALD) or the acute respiratory distingue or already (ALD). As there is a fundamentally different mode than conventional syellot produces a previous and associated with a previous and appearance suffered another suffered and appearance.

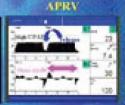
METHODS

Conversitive presents its resistanced from sockers submone or pressure torgeted ventilation to APRV (Drager Falls a Falmormy Workstation) at a Linius sity beoptial surgical ICU were retinated. Patterns installs, resultand with APRV were excluded. Initial ARPV settings for an input arguments (p.0., 200 only on FDO, 200) were a Fligh at the prior plateon pressure of Eq. (0.0) as und at T_{to} (0.0) were BOO, 200 oner and plat 2.73) is patients were subjected to resolve Layercenta and hypersylvania and hypersylvani

RESULTS

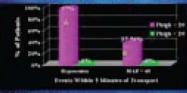
Demographies



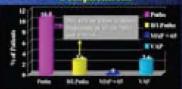


Distances	Value
Sa Heparanda	85%
S- Hypercarbia	1216
Time to 5,00 ; 125 -	T & Bandon
Time to \$300 ± 8.8	5.3 ± 6.9 br
Time to pCO ₂ < 40 tore	42 to 7 min
Hour termon A pf O	76 g 12 min
Mean change in V _E	-33 ± 8.9 Limin*

Transport Safety



Complications



CONCLUSIONS

- LAPRV is a safe resease mode for hypercents or hypercarbic respiratory failure and requires a significantly lower V₁ than conventional ventilation.
- Decreasing release phase volumes and a rising pCO₂ are strong indicators of passamethoras in a patient on APRV. Routine and-tidal CO₂ monitoring is recommended.
- Preparation for safe intra-hospital transport may be keyed to the P_{leph} required for oxygenation and ventilation. Patients requiring a P_{leph} > 20 cm H₂O should be transported on the ventilator.

No Equations

$$X' = A * B$$

$$= (A - (2^{p} - 1)) * (B - (2^{q} - 1))$$

$$= AB - B(2^{p} - 1) - A(2^{q} - 1) + (2^{p} - 1)(2^{q} - 1)$$

$$X'' = (A - E_{p})(B + Eq)$$

$$= AB + AE_{q} - BE_{p} - E_{p}E_{q}$$

$$= AB + AE_{q} - (BE_{p} + E_{p}E_{q})$$

$$= AB + AE_{q} - \left(BE_{p} + \frac{E_{p}E_{q}}{2}\right)$$

$$= AB + AE_{q} - \frac{E_{p}E_{q}}{2} - \left(BE_{p} + \frac{E_{p}E_{q}}{2}\right)$$

$$f(X', X'') = \frac{\Gamma}{2} \sum \frac{\frac{X'^{\delta\alpha \max(\phi^{2})}{X''_{\Gamma^{3/2}}} \sum \epsilon \sqrt{AB + AE_{q} - \frac{E_{p}E_{q}}{2} - \left(BE_{p} + \frac{E_{p}E_{q}}{2}\right)}}{\int_{R} \phi \rho f(\overrightarrow{X}|S_{k}) \frac{1}{(2\pi)^{d/2}\sigma^{d}} * \frac{1}{P_{k}} \sum_{i=1}^{P_{k}} \exp\left[-\frac{(\overrightarrow{X} - \overrightarrow{W_{ki}})^{T}(\overrightarrow{X} - \overrightarrow{W_{ki}})}{2\sigma^{2}}\right]}$$

Ummm... okay...

Speelchick

□ How samrt will poeple thikn yuo are?

- Watch for:
 - there/their/they're
 - □ too/to/two
 - □ its/it's
 - Have a friend/TA/Instructor check (and give them enough time to do it)

Final Sweep

- Spell Check and then spell check again!!
- Use "association" rather than "correlation"
- Remove all first person!
- Causal language
 - remove completely from your results
 - may be presented as a possibility in your Background or Discussion (in context of limitations).