



Effective Poster Presentation

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Kerman University of Medical Sciences, Kerman, Iran

Outline

- Introduction
- A Poster
- Ten Rules for a Good Poster Presentation
- Practical work for Poster Development
- Examples
- Summary and conclusion

Introduction

- Scientific communication is essential for helping us use and take care of this earth.
- Researchers who discover the wonders of science must tell someone about their findings in clear, complete, and concise terms.
- To add to the pool of scientific knowledge, scientists must synthesize available information with what they discover.
- If a scientist garbles words or leaves out important points, messages become unclear, and the progress of science suffers.

Periodically remind yourself about the fundamentals of science and about successful communication.



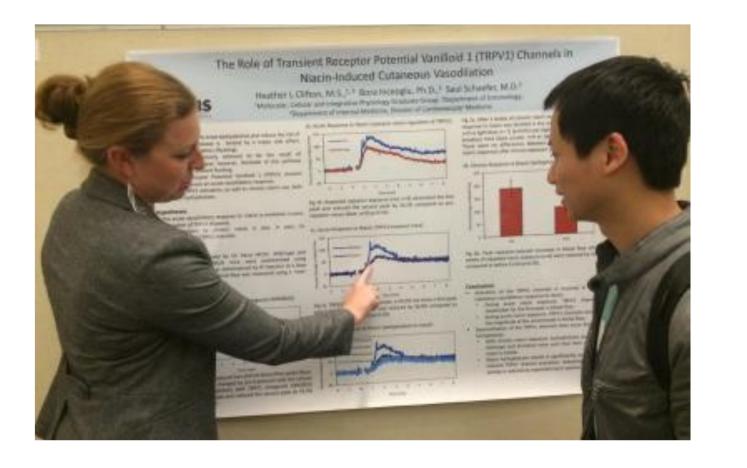
THE CHRONICLE OF HIGHER EDUCATION

A.J. TOOS

"Class, who can tell me what Mr. Billingsley did wrong, in addition to majoring in this discipline?"

A Poster

- Posters are a key component of communicating your science and an important element in a successful scientific career.
- Posters, while delivering the same high-quality science, offer a different medium from either oral presentations or published papers, and should be treated accordingly.
- Posters should be considered a snapshot of your work intended to engage colleagues in a dialog about the work, or, if you are not present, to be a summary that will encourage the reader to want to learn more.
- Many a lifelong collaboration has begun in front of a poster board





Purpose of a Poster

- Communicate research
- To illustrate key points in a visually stimulating manner
- To represent yourself and your work to peers and colleagues
- To network with leaders in your field of interest

Academic Poster?

- A form of Academic Expression
- Summary of Research (5 10 minutes)
- Visually augmented discussion/interaction
- At conferences viewers come to you (or you can invite)
 - People search published abstracts
 - Posters may be grouped by field & folks may wander
- New Information
- Characteristic Fields
- Appearance/Content varies by
 - Field or Lab

Why are Academic Posters Important?

- Represents you and you sponsor's research at:
 - Conferences
 - Symposia
 - Hallways
 - Informational Days
- Demonstrate expertise
- Demonstrate attention to detail
- Practice public speaking
- Learn about most current results in field
- Deepens understanding of topic
- Opportunity for teaching and learning
- Share ideas
- Create collaborations









A poster can be better than giving a talk

More efficient because:

- you totally bomb at giving talks
- can be viewed while you nap
- can hang in the department for years
- can reach folks not in your field of research

Posters serve as...

An advertisement of your hard work



Kool, wow!, check this out!, you must be smart!

Ten Rules for a Good Poster Presentation

Rule 1: Define the Purpose

Rule 2: Sell Your Work in Ten Seconds

Rule 3: The Title Is Important

Rule 4: Poster Acceptance Means Nothing

Rule 5: Many of the Rules for Writing a Good Paper Apply to Posters, Too

Ten Rules for a Good Poster Presentation

Rule 6: Good Posters Have Unique Features Not Pertinent to Papers

Rule 7: Layout and Format Are Critical

Rule 8: Content Is Important, but Keep It Concise

Rule 9: Posters Should Have Your Personality

Rule 10: The Impact of a Poster Happens Both During and After the Poster Session

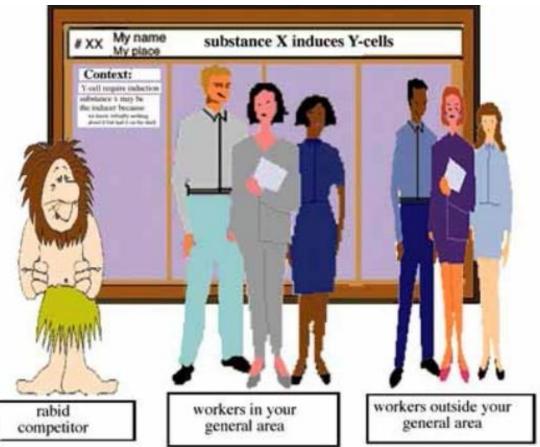
Practical work for Poster Development

Simplify your paper into poster format

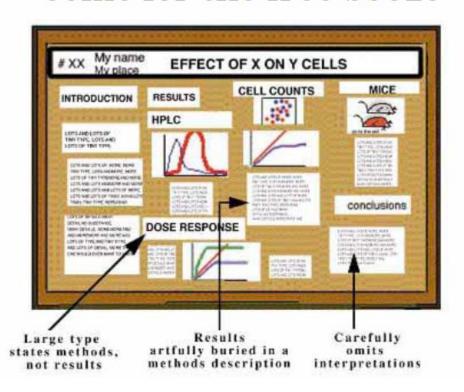
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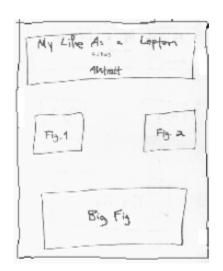
Find out the size required!

Who are my audiences?



Remember, most of these "scientists" come for the free booze





Start putting together your 2 main elements

1) Simple, effective data

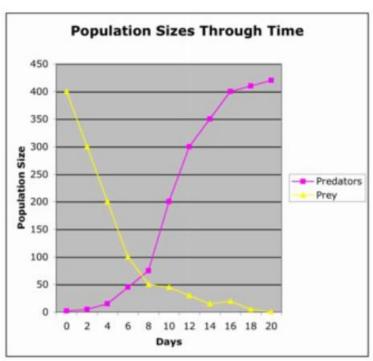
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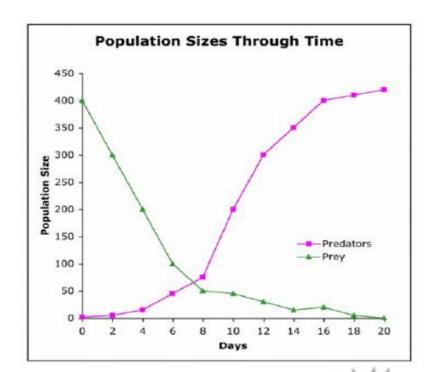
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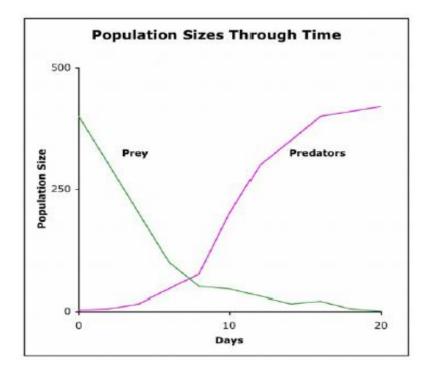
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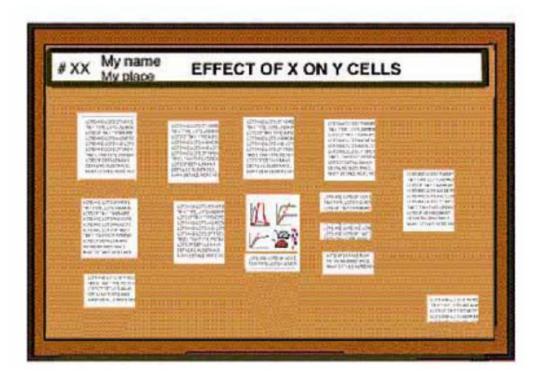




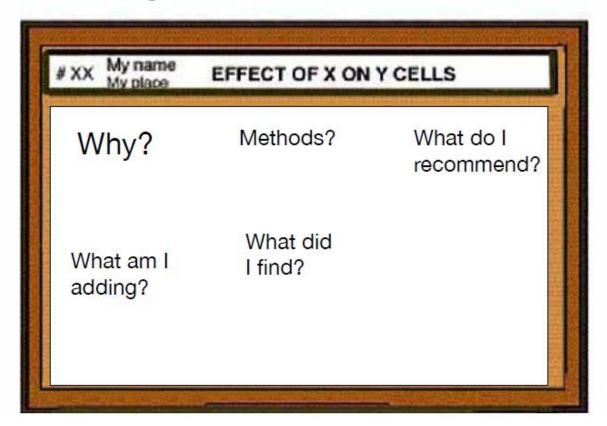


2) Small blocks of supporting text

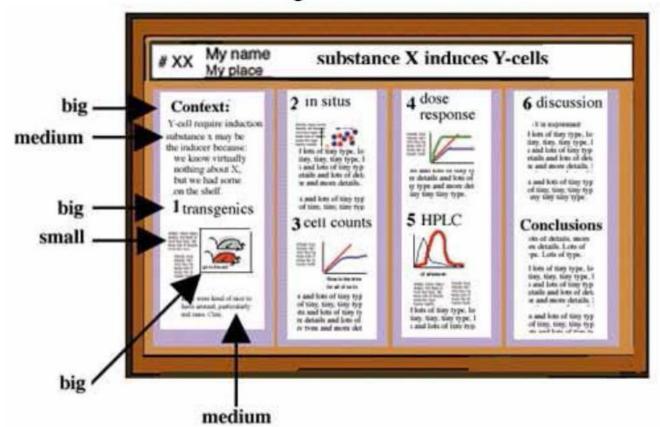
The need for chairs in front of your poster will not go over well

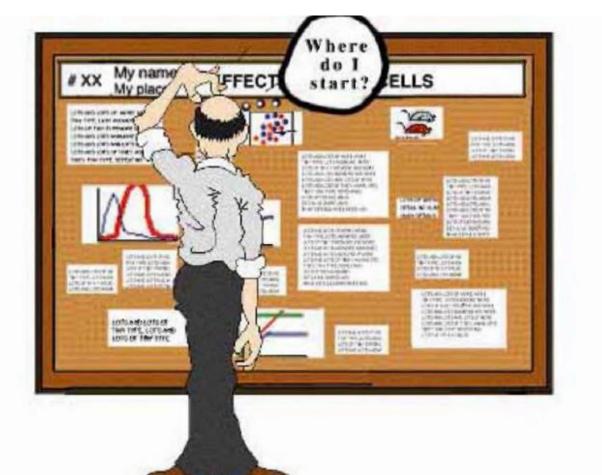


Your copy should answer...



I could actually read this





Pick a software program

Although you'll probably gravitate towards PowerPoint, consider a true design program.

PowerPoint



- OK, but the colors will fool you
- Easy to use
- Inflexible
- Designed for overhead projection

Adobe Illustrator or InDesign



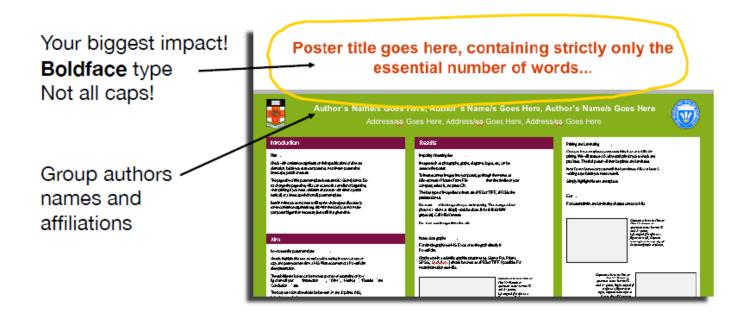
- Excellent
- More difficult to learn
- What you see is what you get
- Others: Canvas, Publish-It, Corel Draw, LaTeX, etc.



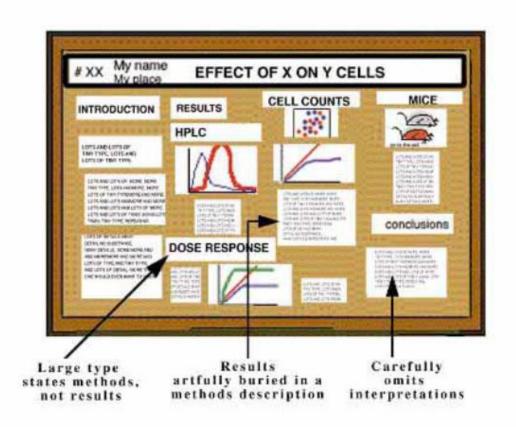
Let's design a poster!

Your poster title:

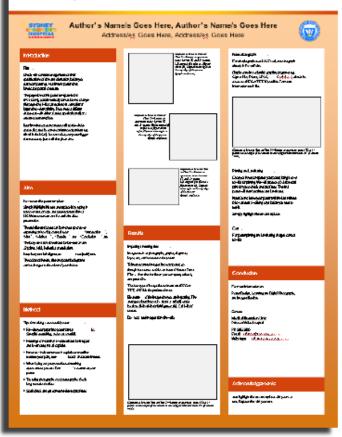
Think BIG! Really Big!



The Secrets of Readable Text:



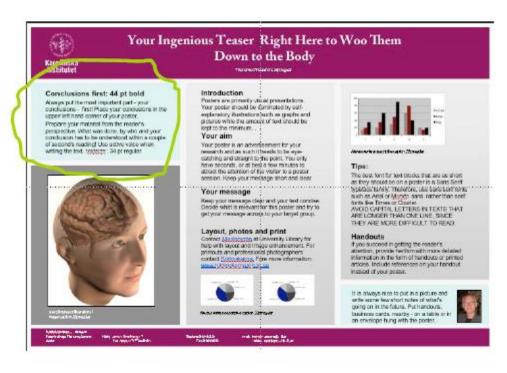
Poster title goes here, containing strictly only the essential number of words...



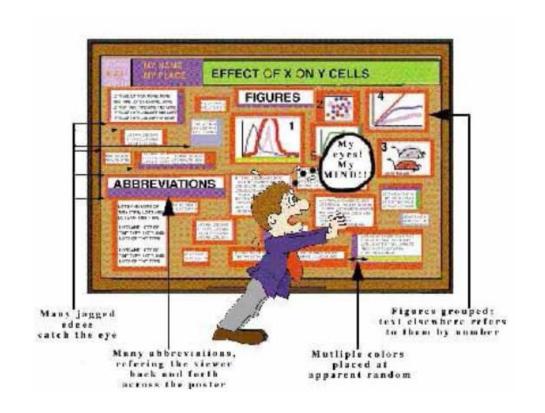
- Leave breathing space around your text
- Plain fonts even serif here
- Same size and style
- Left-aligned
 The reason is...

Conclusions first!

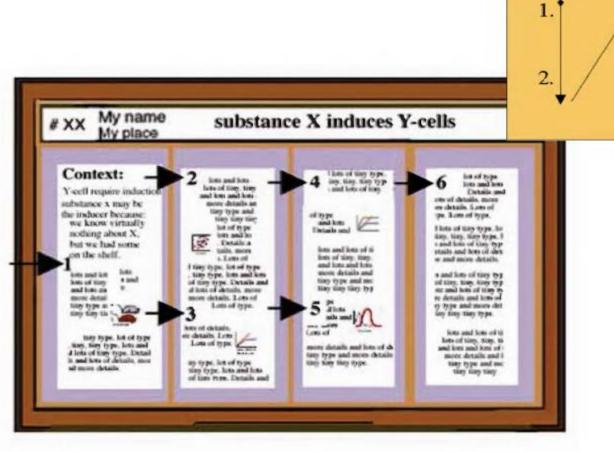
- Put the most important part first!
- Short and to the point!
- Upper left hand corner



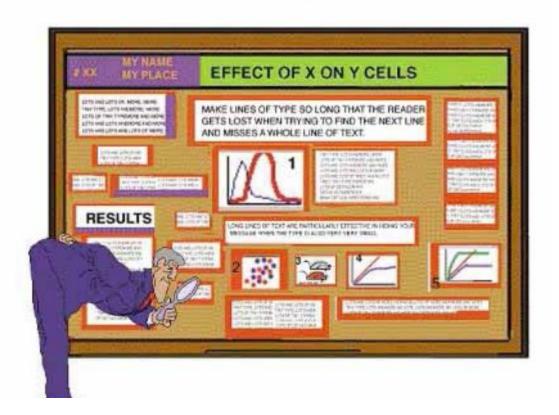
Easy for the eye to follow



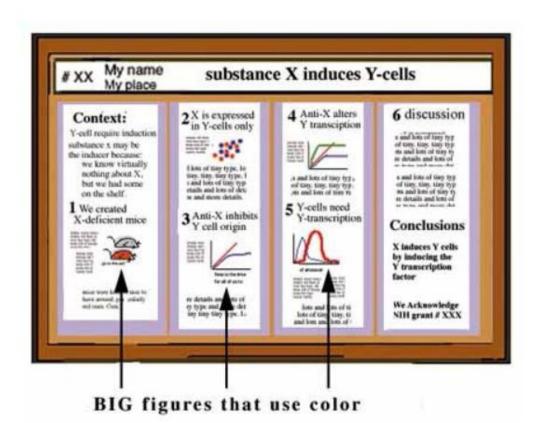
Utter chaos will make folks dizzy!



Can anyone read your body text?



Images and graphs say much more than words



Keep posters visual!



Southern Flounder Exhibit Temperature-Dependent Sex Determination

 A from Luckerbach*, John Godwin and Russell Borski. Department of Zoology, Box 7617. North Caralina State University, Euleigh, NC 27695.



Introduction

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Objective

The study was confucted to determine whether sendom flourier exhibit important dependent settlements (180), and growth a affected by making temperature.

Methods

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- Hatched laws: were required from a natural diet (retiferestriewise) to high posterio perfeciel land and deal profit satisfactor of from never that's.
- Upon contring a more total triggly of 40 mm the parentle fluidates were socked at equal describes two one of three temperatures 10 23, or 28 °C for 245 days.
- Conside over preserved and fuel sectioned at 2-6 micross.
- Gos da faquada quartes were used to do taga denado (spermingueses) from terrales (expensão)

Histological Analysis

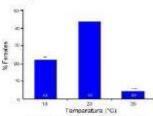






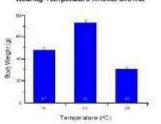
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Temperature Affects Sex Determination

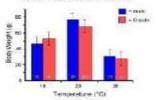


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Rearing Temperature Affects Growth



Growth Does Not Differ by Sex



Results

- Sex was discomble in not fish greater for 120 orn
- High (28%) amporators produced #1- females.
- . Low, (1833) temperature produced 22% finales.
- Mid-range (23°C) unspermen produced 47% females.
- First principal triple or love anymorphies closed reduced growth compared to those at the mid-range temperature.
- grown coupers of more and man really employed
- Up to 245 days no difference via growth coisted.
 Intraces used.

Condusions

- These findings indicate that sex desermination in continers flounder is temperature-scripture and temperature but a protound effect on growth.
- A mid-using reacing temperature (2PC) appears to inclusive the number of function and primore before growth in young conform flounder.
- Although addifference or known to grow larger than mater, no difference in growth between second-orangers age-0 to 1 mars worken founder.

Acknowledgements

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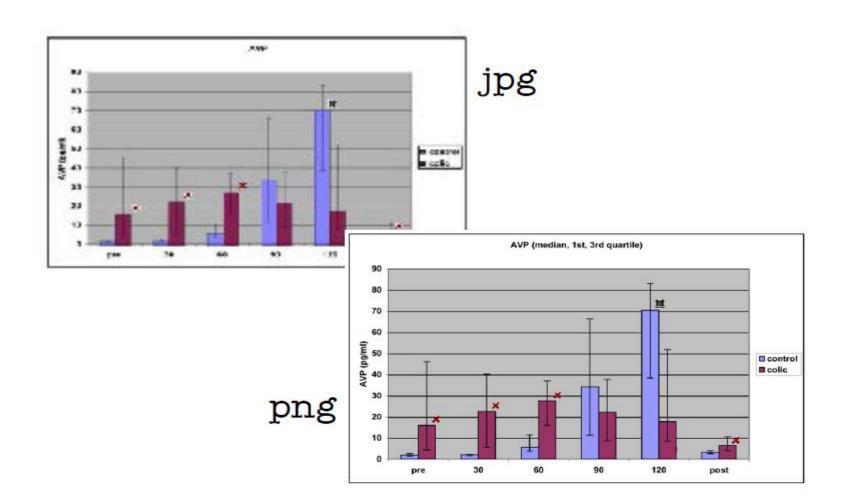
Picture perfect photos

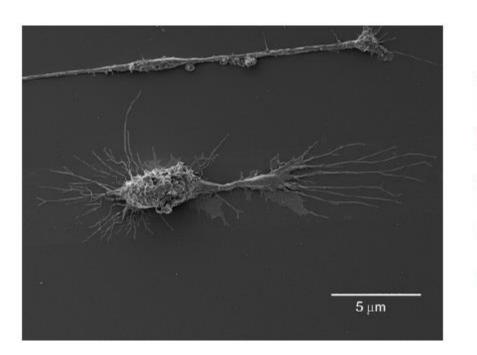
Avoid resolution overkill!
 At least 150 dpi, but no more than 300 dpi



- Save photos as jpg or png
 Line art as a png (graphs)
- Web images are usually poor resolution



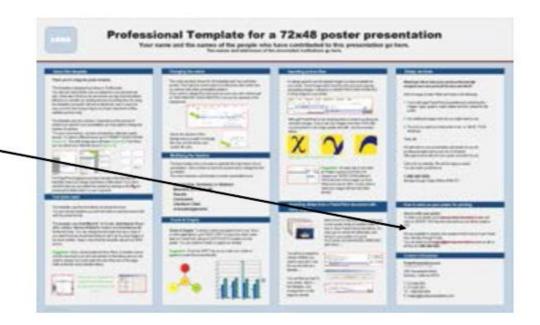




Your cool images mean nothing without a scale bar or description

Don't forget your funding acknowledgements

CNF-NSF-BMR, etc Your department can provide you with the required wording

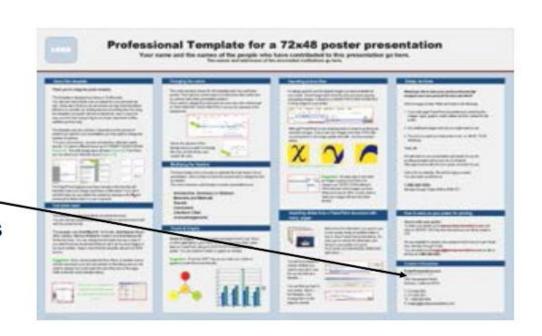


Your contact info!!!

Without it you'll become "ya know, those guys with the awesome poster"

Include all contact info:

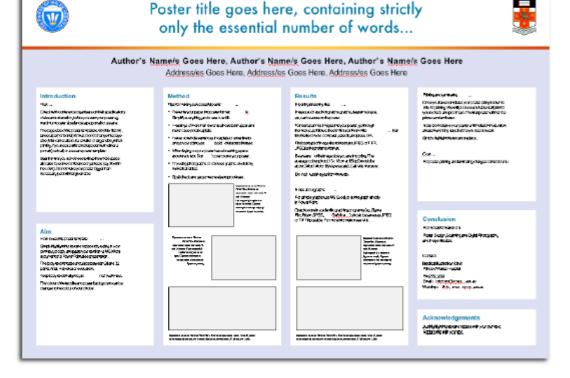
- Mail address
- Phone
- E-mail



Using color to engage your readers

2-3 colors, no more!

Dark type on light color background

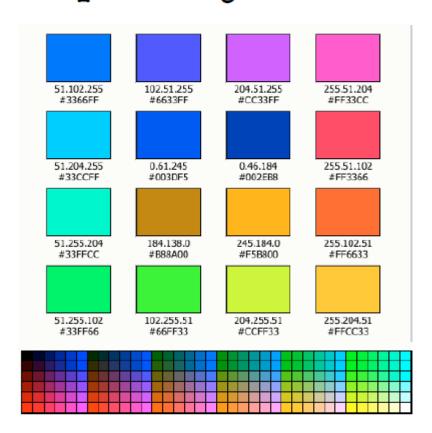


Whoa! Where's my sunglasses?



This attracts attention but tires out the eye

Be carefull with the primary colors



Blue on Red appears blurry to the human eye

Yellow on white is hard to read

Red on Blue appears blury to the human eye





http://www.colorschemer.com/online.html

Be aware of busy backgrounds

NC STATE UNIVERSITY

Snook Growth in Habitats with Differing Abiotic Variability

Alesia Read, North Carolina State University, anread@unity.nesu.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 rules in the survivorship of the juventic speek

STUDY SITES



METHODS









Air mile engel are maded in 2. All engels are begod with the entirings (100-200 mm) in the intensitying markets for inflivitual aquica hase breity growth recoverements.

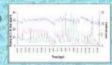
3. Fish proplaced in eages within straight had not at the mounts of see for 60 they. 4. Fish propagated and recorded for prouth

RESULTS

North Creek Lower (High Variability)



Negative Grawth: Dissolved Oxygen (mg/L) 9-22 Salinity (ngf) 2-28 Temp (*C) 25-44



North Creek Middle (Medium Variability)

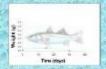


Pesitive Growth:
Dissolved Oxyges (mg/L)
4-8
Salimity (ngt)
16-23
Temp (°C)

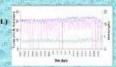


North Creek Upper (Low Variability)

ML IS



Slow Growth: Dissolved Orygen (mg/L) U-4 Sallieity (mg/) 10-30 Temp (*C)



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CONCLUSION

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

-

Southern Flounder Exhibit Temperature-Dependent Sex Determination

Adam Luckenbach*, John Godwin and Russell Borski.
 Department of Zeology, No. 2617. North Carolina State University. Baleigh, NC 22695.



Introduction

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Objective

The ends was contained to determine whether weathers therefor exists unspection dependent on determining (1983), and if growth is affected to remain temperature.

Methods

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- 2), or 20°C for 20°5 days

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 2.6 minutes.
- See datagaching stalker was used to destagach ratio type redependent from testalis to generate.

Histological Analysis

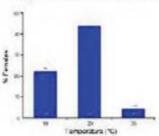




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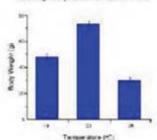
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Temperature Affects Sex Determination

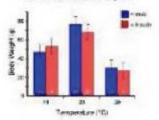


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Rearing Temperature Affects Growth



Growth Does Not Differ by Sax



Results

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- * Add mags (297) transporters produced Will Institut
- From rate of a ling how in a measure trans, channel melantify growth compared to those in the mill range transection.
- Upt. 245 days in difference improving contracts.

Conclusions

- Ther heavy means make discinuous markets founds is to position and our passers have proving effects growth.
- A red case many emparates (2PC) associate manager for marker. However, and primare better greatly a social product framed.
- Offerigle also be access to some gravelage than their in-difference is gravel between assessmented in agricult. Journal of the best properties.

Acknowledgements

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A little different!



Southern Flounder Exhibit Temperature-Dependent Sex Determination



J. Adam Luckenbuch*, John Godwin and Russell Borsk) Department of Zonlogy, Box 7617, Nurth Carolina State University, Raleigh, NC 27695

Introduction

Southern flounder (Spanish 2000 Authorizona) support valuable fisherie and show great promise for apparedime. Formale flounder are known to grow their and rusch bugge arbit circle than male! Therefore, information on sex determination that might increase the rule of female flounder is important for aquie affire.

Objective

This study was conducted to determine whether southers flourier eshibit compensative-dependent sex determination (TSD), and if growth is affected by retaining temperature.

Methods

- Southern flounder binodition were strip apawared to collect eggs and sperm for in were dertilization.
- Hatched larvae were weared from a natural diet (corless Access) to high protein adjusted leed and fed until satisfies at least water fails.
- Upon reaching a mean total length of 40 mm, the greenile flounder were stocked at equil deckies into one of three temperatures 18, 23, or 1870 for 245 days.
- Gonath were preserved and later sectioned at 2-6 micross.
- Sex-distinguishing markers were used to distinguish males (spenmategenesis) from females (spengeds).

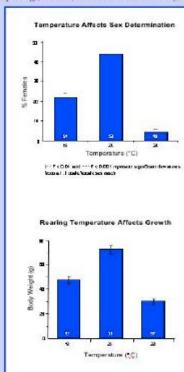
Analysis

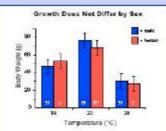




Mik Wilcolnio

Teach Collectivities





Results

- Sex was discornible in most fish greater than 120 mm. long.
- * High (28°C) temperature produced 4% females.
- * Low (18°C) temperature produced 22% females.
- Mid-range (23°C) temperatuse produced 44% females.
- First raised at high or low temperatures showed reduced growth compared to finose at the read-range temperature.
- Up to 245 days, no differences in greath existed between source.

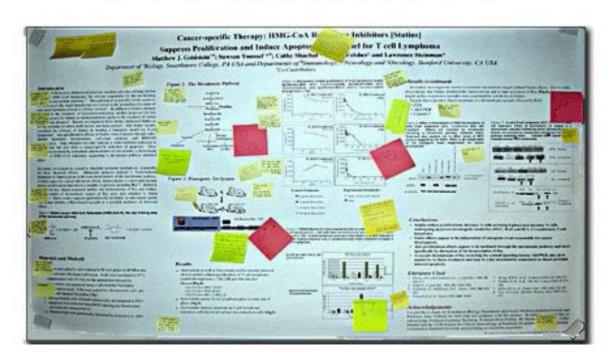
Conclusions

- These findings indicate that sex determination is southern founder is temperature-sensitive and temperature has a profound effect on growth.
- A mid-range searing temperature (23°C) appears to maximize the number of females and promote better growth to young southern florader.
- Although adult females are known to grow larger than makes, so difference in growth between cases occurred in age-0 (< 1 year) contiens founder.

Acknowledgements

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Edit, Edit, Edit and Evaluate!



Print out a letter size draft

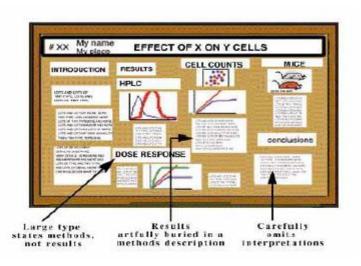
Can you read the type?

Are these the colors you really want?

Does it look too busy?

Do my main points pop?





CCMR has 2 poster printers!

Our wonderful computing facilities offers state of the art poster printing





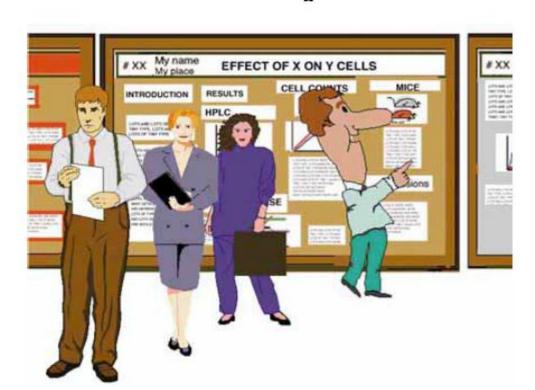
The secret of a good poster:
"Ugly design print ugly poster"

http://cf.ccmr.cornell.edu/cf_newsite/poster_print/index.html

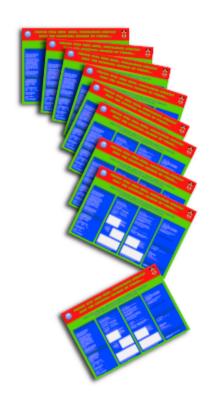
You're not done yet...

Prepare a 3-5 minute verbal explanation

Is he ever going to SHUT UP???



Prepare mini size poster handouts



- Provides a written record for interested folks
- Makes you look together
- Be sure to include complete contact information
- Might even get you a job!

Examples

Using a Windbreak Habitat Model Across Broad Landscapes: The Effect of Local Landscape Composition and Geographic Location

George Hess John Poulsen , Raymond O'Connor , Jeff Bay

1. Windbreaks as Habitat

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Regional Englantion of Windbreaks

Approximate factor specific control of the product of the product

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4. Validating BSRI Model

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5. Results of Validation

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6. Pailure of the Model

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7. Local Landongo-Scale Effects

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A bit text heavy but not too bad.



Determining the Wear Resistance of Occlusal Splints in a Prospective Clinical Study

P. Ottl, P. Schmelz, A. Piwowarczyk, H.-Ch. Lauer

Dopt of Proxitodoxics, School of Doctors (Doctors Food Dr. H.-Ch. Lancy), 2/2005 (Carolinaa), J. W. Goothe University, Frankfast, Garmani-

Objective

• To accomise quantitatively the year resistance of a narely developed light-carrieg splint more over a period in sets of six months.

Materials and Methods

· Patients

e - Morracolise patients (memage: 34.7 years: 32.15.8 M)

· Inclusion criteria

- Natural death we'll and deather - Complete destitues to at least the Interclar
- for the ctability or too up has surreplice
- + I modificient outload support
- Increased sectional loss of dental hard towns

the the distriction rather carryles

- TMI coin and
- . Deep leterangetor dislocation of the
- disk without reduction with terminal reduction.



Fg L falkannylvinnin

· Resin splint material (Fig. 1)

- -Light-carriage(400-500 and) resin made of high-motivative disorthaceyboxs with regards and inorganic fillers
- Does seet contain marriey? seet learny lane

Study design

- Daration & section
- Types of splines (moville, n = 10 each): on Nilesaku aptiens, diseasolors splines Spline woor mode: 24 boom
- Exercinations
- he lose appeties (BIT), at 4 wadso (4W).
- at 3 months (336), at 6 months (5M).
- Oretinal adjustments were restricted to the time before 4W

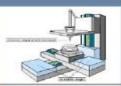


Fig. Diffet.ore

· Measuring technology (Fig. 2)

- Vidrotion molatal table framework.
- 5 translation stages (for directions a, y, and s) (DC-Monr) (Pl. Weldhesen)
- -DN et sommer ionneups (Zeiter, Oberbenhort)
- WA 20 industries displacement transitions: Spideril digital S-channel monuments and unit Categor 32 reflexes V2.9 (BHM, Duras and)) Local annul instructorage for acclard
- contacts above boschoe measurements.
- Tes measurements each in regions D. 29, 16, 25 (DL 4W, 351, 650) Spiret suppositioned on purcount uses:

Results

- The medians of the sechoal vertical. gains ferous (want, roots formus... reason somptions, eductored of several as-
- Fig. 3 productions updated and
- Fig. 4 (discovering spitzer)

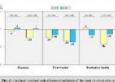
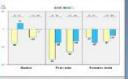


Fig. 4. solved modest and observed relations for the design of the set of other properties and the set of the



· Statistical analysis Glass-Whitsey U-test. mS0/050 showed our signal team) differences when so reputing the so reoperating results of stabilization and distruction splints.





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Conclusions

- . The present study of study confirms the good mean resistance weaths of the new mais splint. national solutional in a province destance analy-100TE, et al., Owen Zalaurati 2, 52, 541 diswrot.
- · Good wone programs and area importance for man himsing the therapeut is manuficular position during the tourness period (Figs. Inand be



Nice poster

EMAP

A Framework for Assessing the Condition of Agricultural Lands

Groupe How¹, Amer Bellkamp², Mike Mussers³, Serve Preks³, Lee Campbell³, Berry McQuald⁴, Steve Shafer^{3,5}.

Mission: To develop indicators of the condition of agricultural lands within an ecological framework.

Boolon. To develop indicators of the condition of agricultural lands within an ecological fram and as morable and evaluate this condition on a regional basis.



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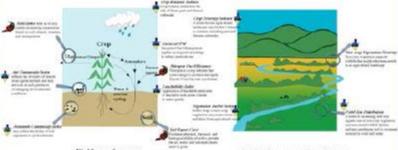
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Potential Indicators for Annually Harvested Herbaceous Cropland

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Fields are for crops . . .

... but landscapes are for all of us.

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Where do I begin?



PREVALENCE OF OBESITY AMONG INNER CITY LATING CHILDREN AND ADOLESCENTS

Nazent M., Mirza MD, ScD, Jill Marchant MS, Leila Beker, PhD

Chekhur's National Medical Center and George Workingson Deversity School of Medicine and Hoofth Sciences, Washington, DC

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I'm feeling sleepy

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

Shown R. Garlott, M.D., Sastor H. Carbon M.D., Mark A. Reiter S. M.D., Joseph W. Laner, W.D., Frank W. Philippi, W.D., Hallett S. Matheway, M.D., Santon H. Sacher S. Honorally of California, San Diago, Michael Conto, Cala Chang, CA V. Consoleri Circo, Circoland, CH V. Michael School, Change State and Conton State Conton Co

BACKGROUND

- 200,000 MOFN or year
- 275,000 diagnosed, 190% due to pain
- Spring deforming precipited with Significant mortisity
- 27% increased mortally (Kado, Nov be Med 1986);
- Current treatments ineffective
- Open surportes fall Mindred management pullsative
- Visitalização
- Stretune transpositural comment No.
- Retireme pain
- Requires high pressure and numy varient
- High-risk of corners busine
- . Upda 12% where documented Movif et al., Restorage 1997)
- Major sunsplications (Chess., J.14 Neurosad 1967)
 - * 1.7% to retorgrammin

KNEWOPLASTY

Epitopiesty is a recorally invasive orthogodic providers for reducing and thing pathol soldered body compression function econoling to colongeria. Daing a positions approach, one or but inflatable flore Tamps (Fig. 1) are inserted into the Tablaced vertical balls, generally using a bished toroughold approach (Fig. 2). The angest carefully offices the below terms (Fig. 2) using nationages certain reduct with image. volume and pressure control. The increased tailout tamp volume compacts the over cancellina time as it pushes the fractural outer control force. back insent its normal position. The inflation path is also controlled by placement, volume and balloon daugn. After industries, the balloon large in removed, and the residing used is filter with those PMIDE under the manual control and loss pressure. The stape of Kyphoplasty are illustrated in Fig. 3.

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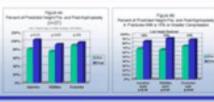


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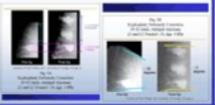
· 1075, in malastiatic concern

STUDY DESIGN AND HETWOOL

A retrospective duli-contex revise to assess early subcones with Kyphoplasty. Pain less totalped by physical examination. The presence of matrice orbins and colleges was conformal on MRI. Garwing or dead total prosthesis was chosen based on anatomy, number of breek and patient status. The first 135 patients all our centurs were select to characteries that back pain as improved, the same or some 24 hours post-up and of last following. Frankens and reasons record serious body heights were transport arterior million and posterior in the first 37 vertained body fractures treated by one surgeon (MMS). The height of The reserved mortral sections tooly was used to calculate the % of predicted height for all the various busine (Fig. 44) and for the sub-set where which had bed 10% or more of height before treatment (Fig. 48).



The productions height was additional from the produced height, then phoded by the goal headmant harget authorized from the produced harges, to and the percentage of and langer restored. One set of X-race by one surgeon (FMF) are used to show an example height reducation (Fig. 56) and paramity correction (Fig. 56). Device-valued major complication from all procedures are reported. PMWA lease in the first 70 procedures performed by one surgeon (HL) were assessed with X-ray and MR.



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OK, but which way do I go?



Poster title goes here, containing strictly only the essential number of words...



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Results

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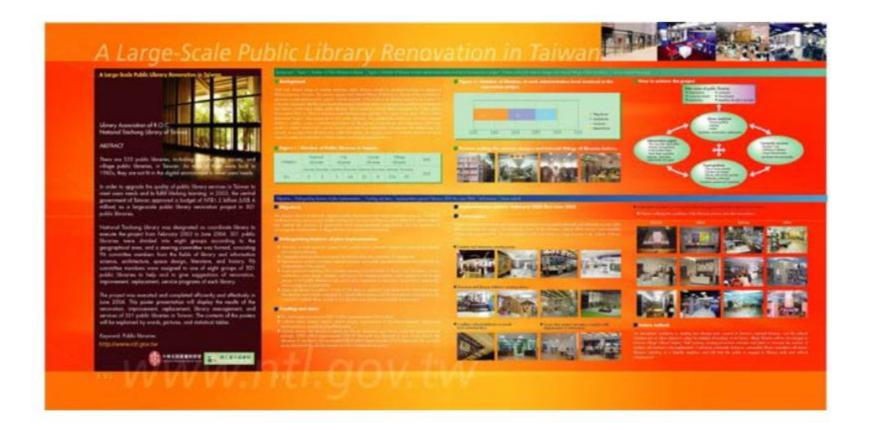
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Acknowledgements

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Perfect!





Oh my gawd!

WHICH IS MORE IMPORTANT: NUMBER OF PATCHES OR CONNECTIVITY?

Darin Kalisak, PBS Student

Court Dabalton was ex-

INTRODUCTION AND CBJECHVES

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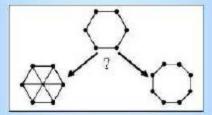
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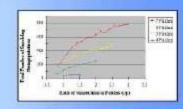


RESULTS

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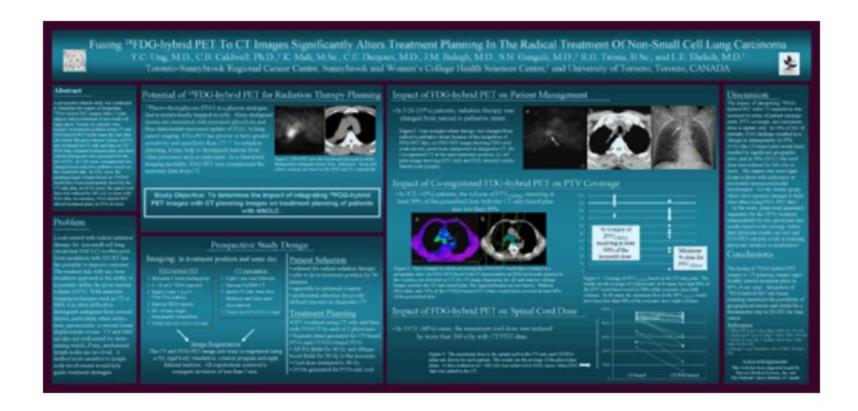
CONCLUSIONS

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Nice flow, but too metallic





I've fallen, and I can't get up



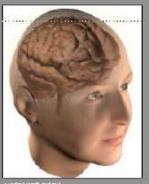
Your Ingenious Teaser Right Here to Woo Them Down to the Body

The name of ward-on State order

Conclusions first: 44 pt bold

Aways put the most important part - your conclusions - first! Place your conclusions in the upper left hand comer of your poster.

Prepare your meterial from the reader's perspective. What was done, by who and your conclusion has to be understood within a couple of second's reading! Use active voice when writing the text. 1998(2):2: 34 pt regular.



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Introduction

Posters are primarily visual presentations. Your poster should be dominated by selfexclanatory flustrations such as graphs and pictures while the amount of text should be kept to the minimum.

Your aim

Your poster is an advertisement for your research and as such it heeds to be eye-catching and streight to the point. You crity have seconds, or at best a few minutes to altract the attention of the instance to a poster accession. Keep your message short and clear.

Your message

Keep your message clear and your text concise. Decide what is relevant for this poster and try to get your message across to your target group.

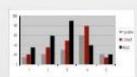
Layout, photos and print

Contact Machinery at University Library for help with layout and image enhancement. For printouts and professional photographers contact <u>Biotography</u> Fare more information: www.biotography.com





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Tips:

The best faint for text blocks that are as short as fley should be on a poster is a Sens Sent Synthesis faint? Thelefora use sand sent point such as Afair or thoogh sens rather than sent forts the Times or Courier.

AVOID CAPITAL LETTERS IN TEXTS THAT ARE LONGER THAN ONE LINE SINCE THEY ARE MOSE DIFFICULT TO READ.

Handouts

If you succeed in getting the reader's attention, provide her/firm with more detailed information in the form of handouts or protect antides. Include references on your handour instead of your poster.

it is always nice to put in a picture and write some few whart notes of what's going on in the future. Put handcuts, business cards, nearby - on a table or in an envelope hung with the poster.





Gorgeous!

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BELIEVE VENTILATION (APRV)

Lewity J. Kaplan, MD29 , Heatherlee Bailey, MD, FAAEMP Medical College of Pennsylvania-Habnemann University

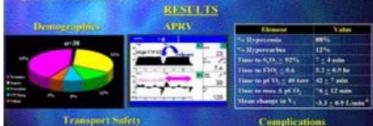
Departments of Surgery and Emergency Medicine'l', Philadelphia, PA USA

INTERODICTION

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CONCLUSIONS

- APRV is a safe rescue mode for hypoternic or hypotearbic respiratory failure and requires a significantly lower V_g than conventional ventilation.
- Decreasing release phase volumes and a rising pCO₂ are strong indicators of pneumorhorus in a patient on APRV. Routine and 6dal CO₂ monitoring is recommended.
- Proparation for safe intra-hospital transport may be keyed to the P_{max} required for oxygenation and ventilation. Patients requiring a P_{max} > 20 cm H₂O should be transported on the ventilator.



Welcome to the 80's

Fer sure!

Poster title goes here, containing strictly only the essential number of words...



Author's Name/s Goes Here, Author's Name/s Goes Here, Author's Name/s Goes Here



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This works!

"If it dies, it's biology, if it blows up, it's chemistry,

if it doesn't work, it's physics."

JOHN WILKES