

Hearing Evaluation: Conditioned Play Audiometry



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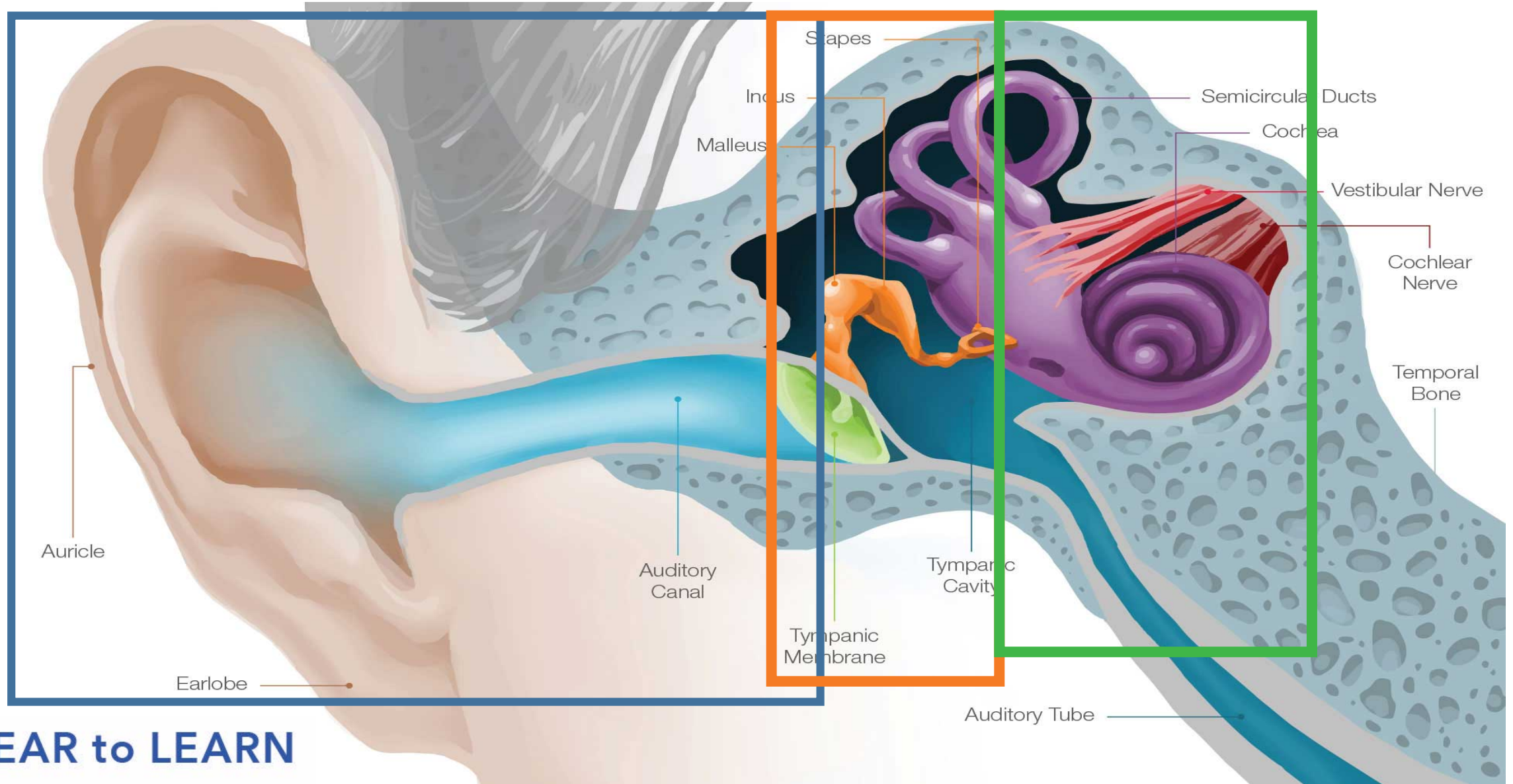


Learning Objectives

1. Understand the different types of hearing tests
2. Recognize the importance of monitoring hearing
3. Discuss what parents should expect from hearing assessments
4. Understand the important role that parents play during hearing testing as test assistants
5. Learn different activities that can help to prepare the child for the hearing test



Ear Anatomy

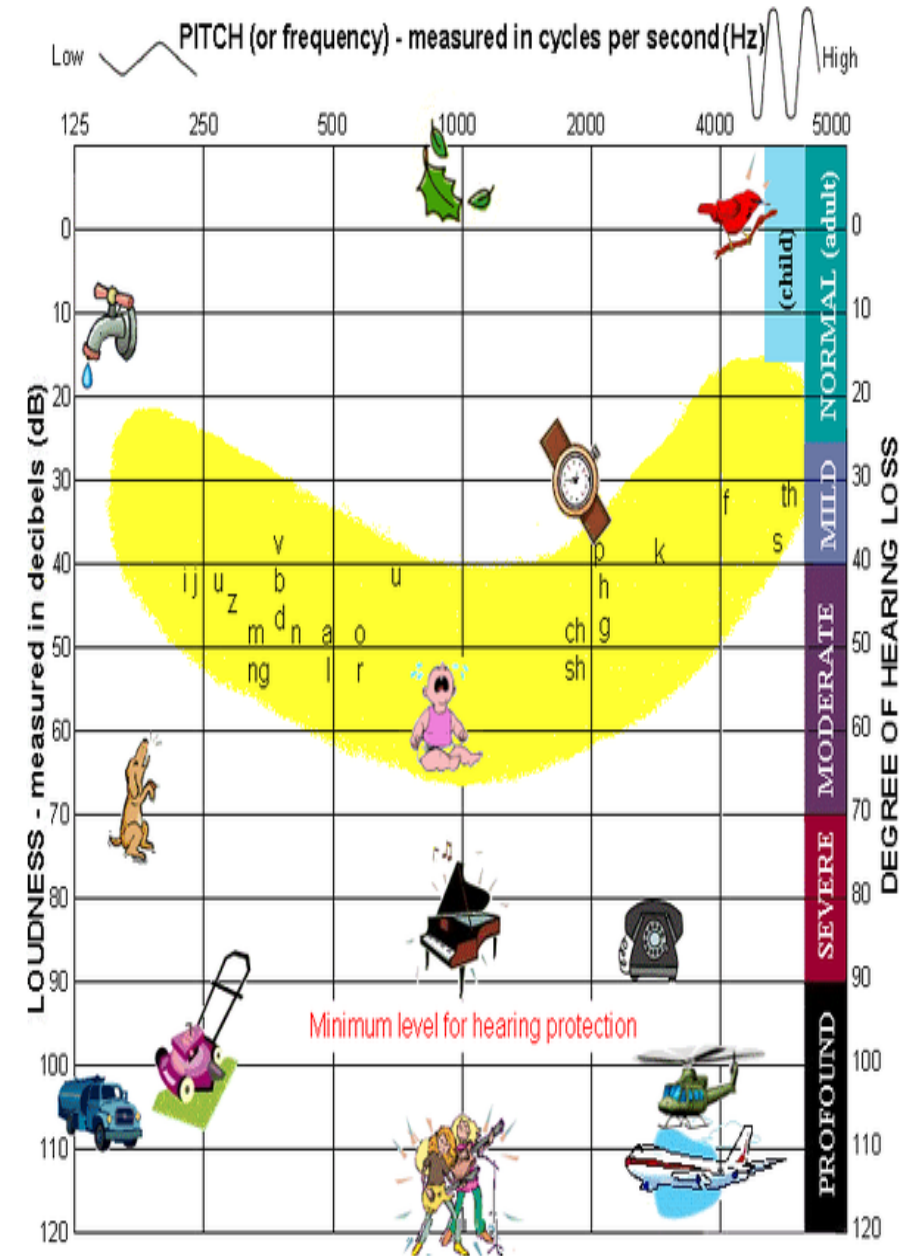


Monitoring Hearing

**Is monitoring hearing
important?**

Monitoring Hearing

1. Hearing sensitivity for both ears
(ear specific)
2. Results from as many frequencies possible
(at least 500Hz, 1000Hz, 2000Hz, and 4000Hz)



Types of hearing test based on age

0-6 months old

✓ Otoscopy + Tympanometry + OAE + ABR

6-24 months old

✓ Otoscopy + Tympanometry + VRA

24-60 months old

✓ Otoscopy + Tympanometry + CPA

> 60 months old

✓ Otoscopy + Tympanometry + Standard Audiometry



Types of hearing tests

Otoscopy



Tympanometry



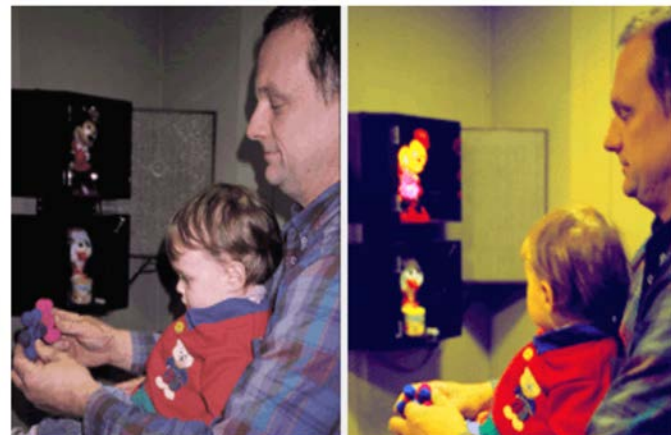
Otoacoustic Emissions (OAE)



Auditory Brain Response (ABR)



Visual Reinforcement Audiometry



Conditioned Play Audiometry



Audiometry





Hearing Evaluation: Conditioned Play Audiometry



Conditioned Play Audiometry - CPA

Age: 24-60 months old
Based on child's developmental age

The Better Hearing Institute,
The Infant Hearing Guide,
www.jtc.org

Goal: to assess the lowest volume levels of sound a child can hear

Method:

- Sound is presented to the child through sound field speakers, headphones, or insert earphones
- Child holds a toy up to his ear and participates in a motor task when a sound is presented and heard (e.g., “Listen-and-drop task”: dropping a toy in a bucket, etc.)
- Other Games include: bucket, rings, cubes, puzzles.
 - Having a variety of interesting toys will increase the probability of keeping the child's attention long enough to get the information needed for testing.

Duration: 45minutes (or multiple appointments)

Test Assistant Role - CPA



- Model & teach child how test works
- Minimize distractions
- Give the toy to the child

Child's Positioning during the CPA



Sitting on a high-chair by himself

Training a Child for Play Audiometry

- 1) Help the child to get ready to hear the sound
- 2) Teach the child to respond **ONLY** when he hears the sound

At home, parents can use a cell phone to present sounds similar to the ones used at the Audiology clinic.



What should parents expect?

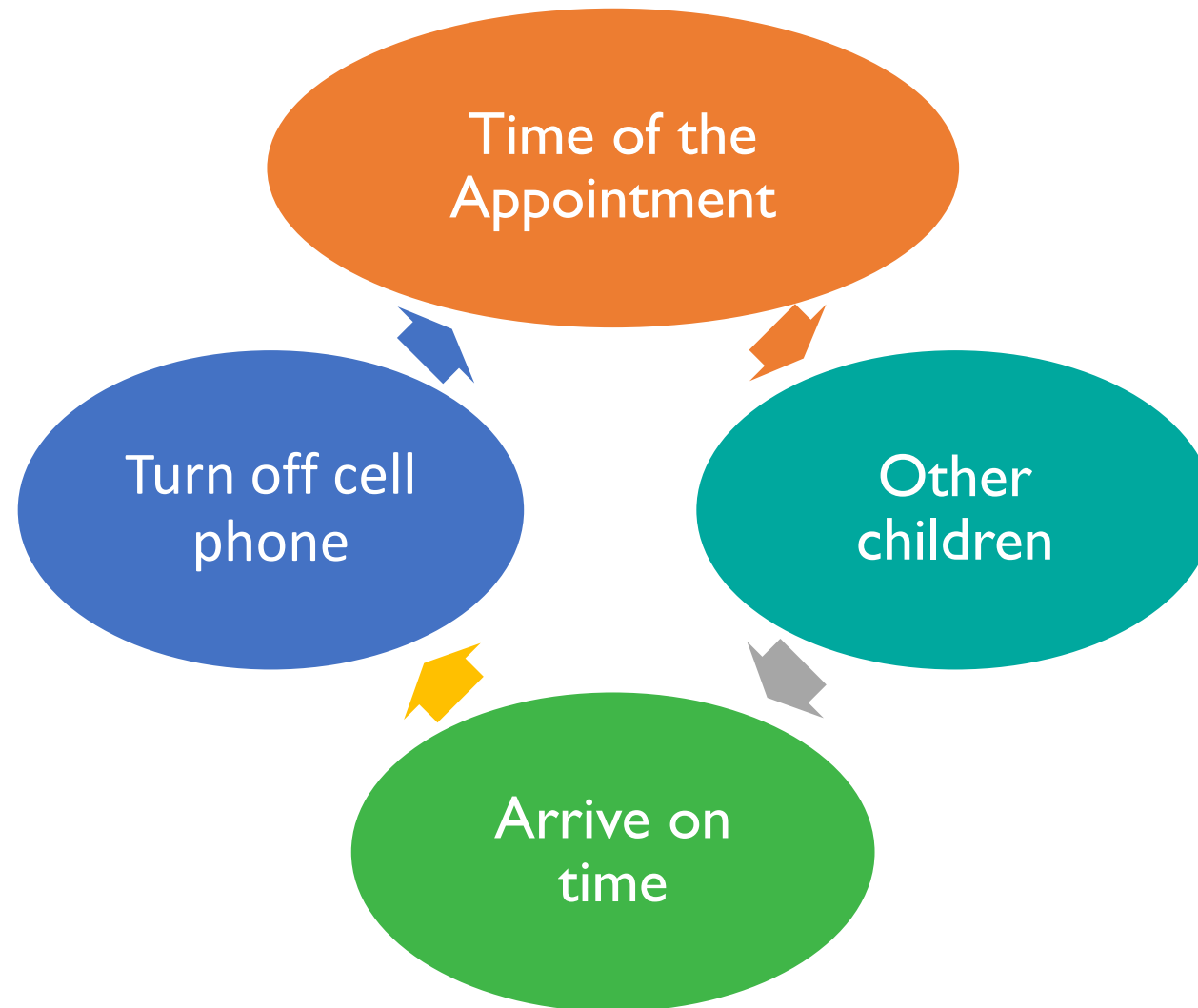
When children are very young, sometimes testing will need to be completed in multiple appointments (*a single visit may not be enough to make a final diagnosis*)

Frequent visits to the audiologist are needed to:

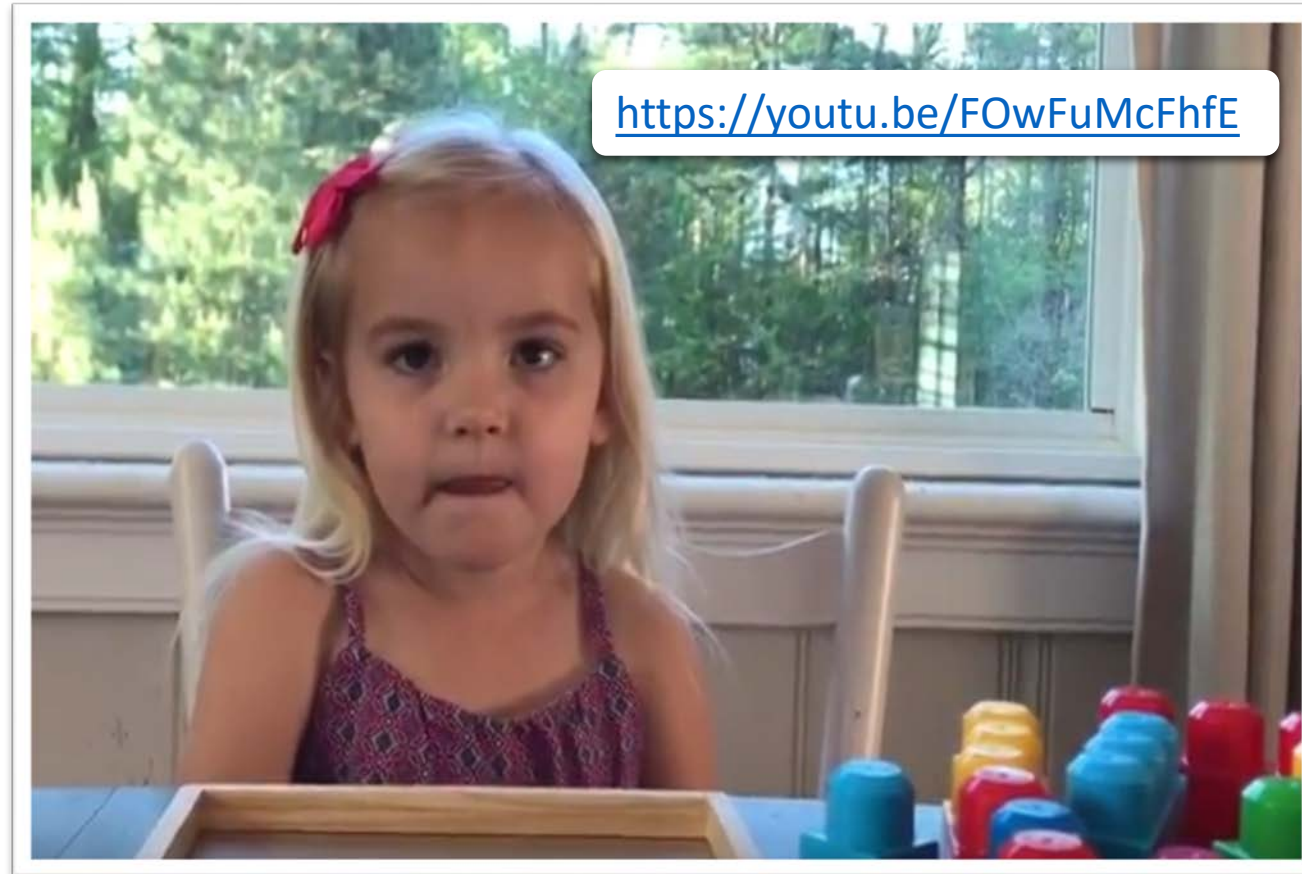
- Determine the type, degree, and configuration of hearing loss
- Completely assess both ears individually
- Monitor possible changes in hearing



Recommendations to Parents



Videos to practice at home



Conditioned Play Audiometry



Games/Activities to practice at home

Video: Conditioned Play Audiometry - CPA



TUTORIALS

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Test Assistant: Play Audiometry



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Resources

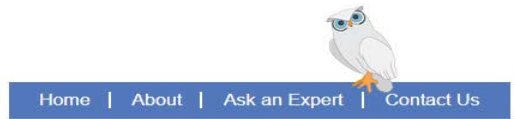
- ❑ MEDEL: How hearing works? <https://youtu.be/fllAxGsVIq0>

- ❑ Conditioned Play Audiometry Practice at Home: <https://youtu.be/FOwFuMcFhfE>

- ❑ www.heartolearn.org
 - ❑ Test Assistant Play Audiometry:
<http://heartolearn.org/tutorials/hearing-loss-management/test-assistant-play-audiometry.html>

 - ❑ Future webinars: <http://heartolearn.org/communities/learning-together.html>

For questions or to request materials, please visit our website:



“Hear to Learn”



Contact Us



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[Questions and Comments](#)

