
Pediatric Proton Therapy in the United States: Patterns of Care 2011



pediatric proton foundation



The **National Association** for **Proton Therapy**

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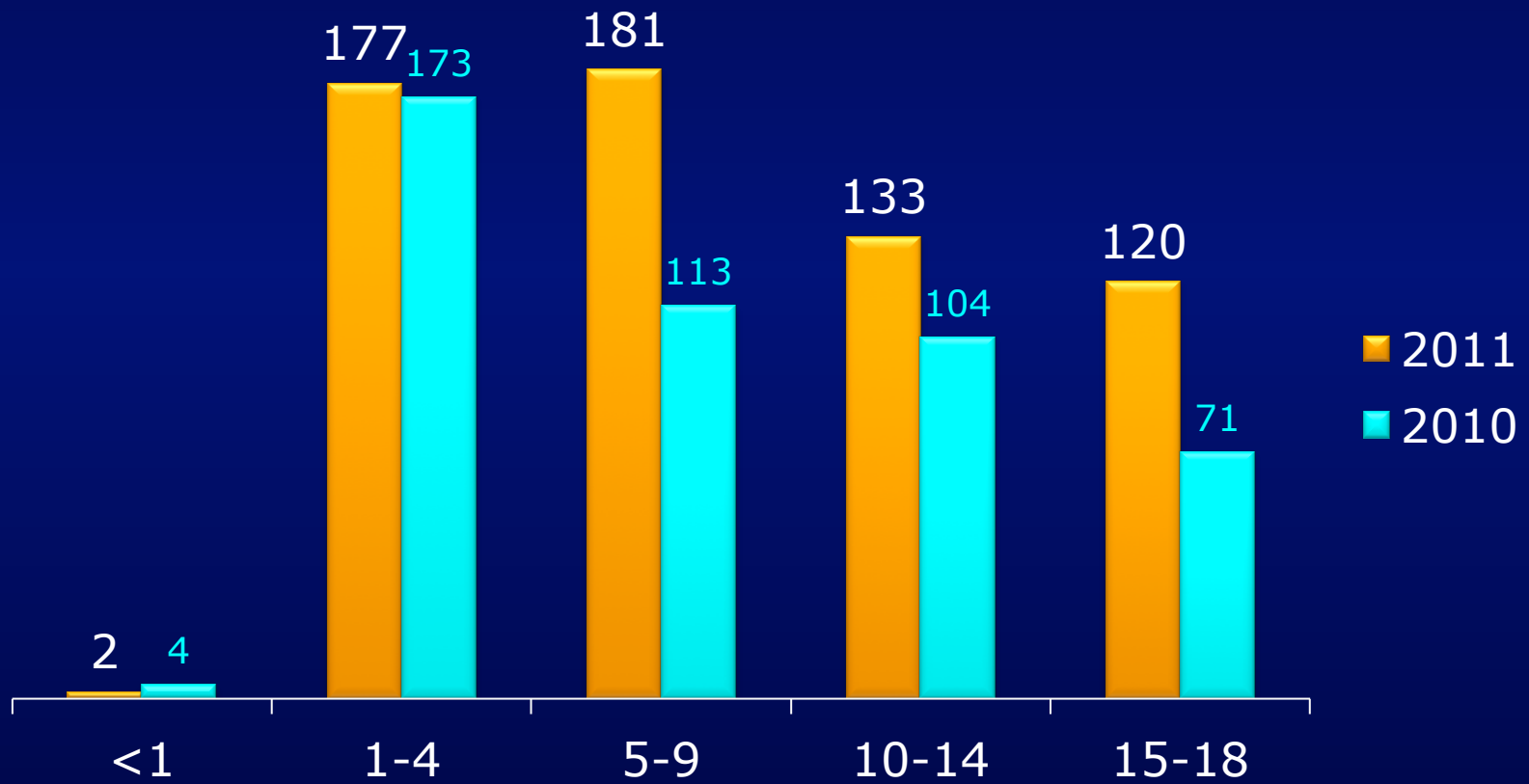
Survey Methodology

- All 9 operating US proton facilities in 2011 were surveyed.
 - Anonymous patient age range, tumor site, and histology collected for every pediatric patient treated from January 1, 2011 through December 31, 2011
- All facilities responded for a 100% response rate

Results

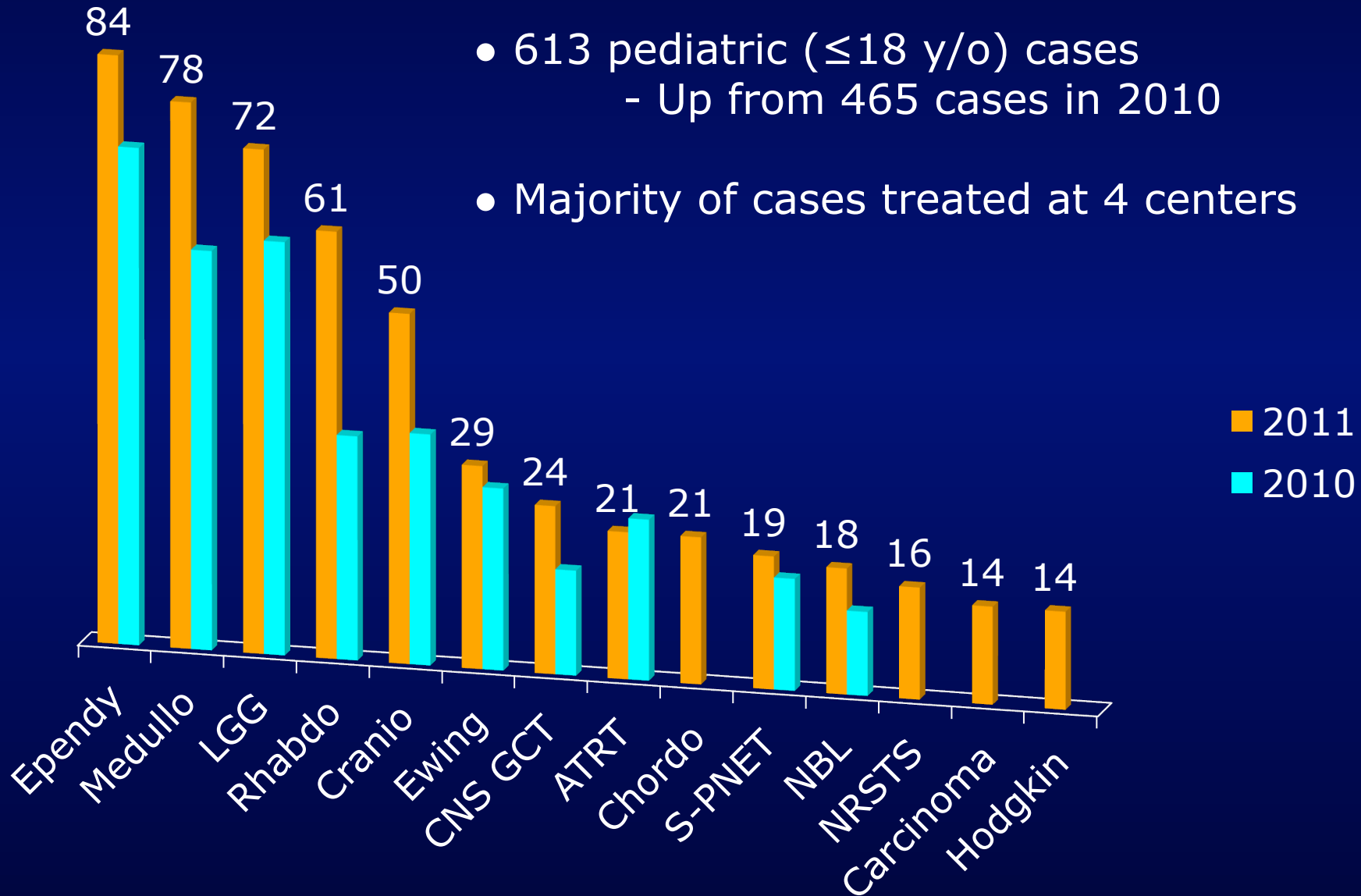
- 613 children and adolescents treated with proton therapy in 2011
 - In 2010, 465 children and adolescents were treated.
 - This represents a 31.8% increase
- All facilities treated ≥ 1 pediatric patient

Peds Proton Patterns of Care



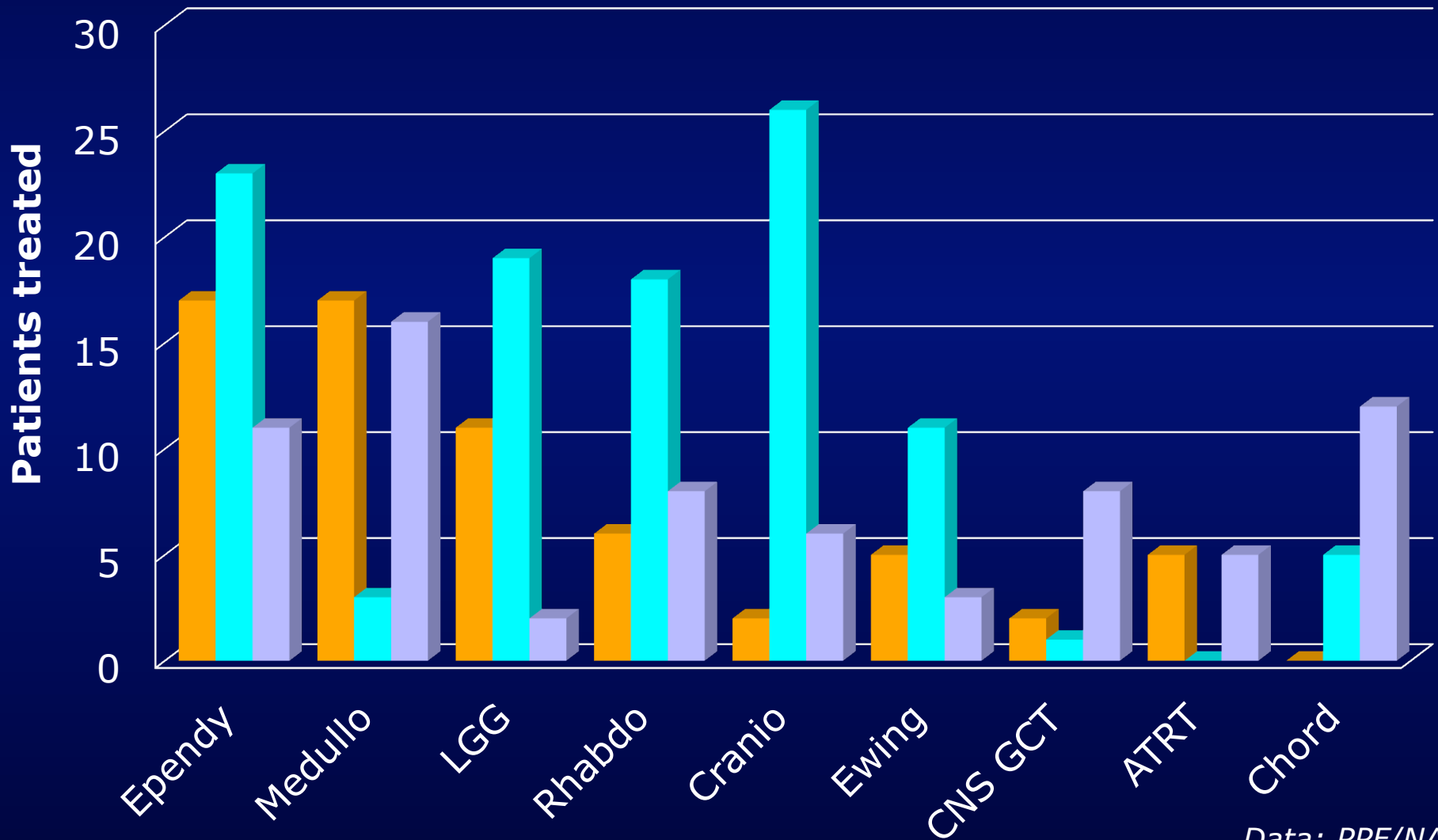
Peds Proton Patterns of Care

- 613 pediatric (≤ 18 y/o) cases
 - Up from 465 cases in 2010
- Majority of cases treated at 4 centers



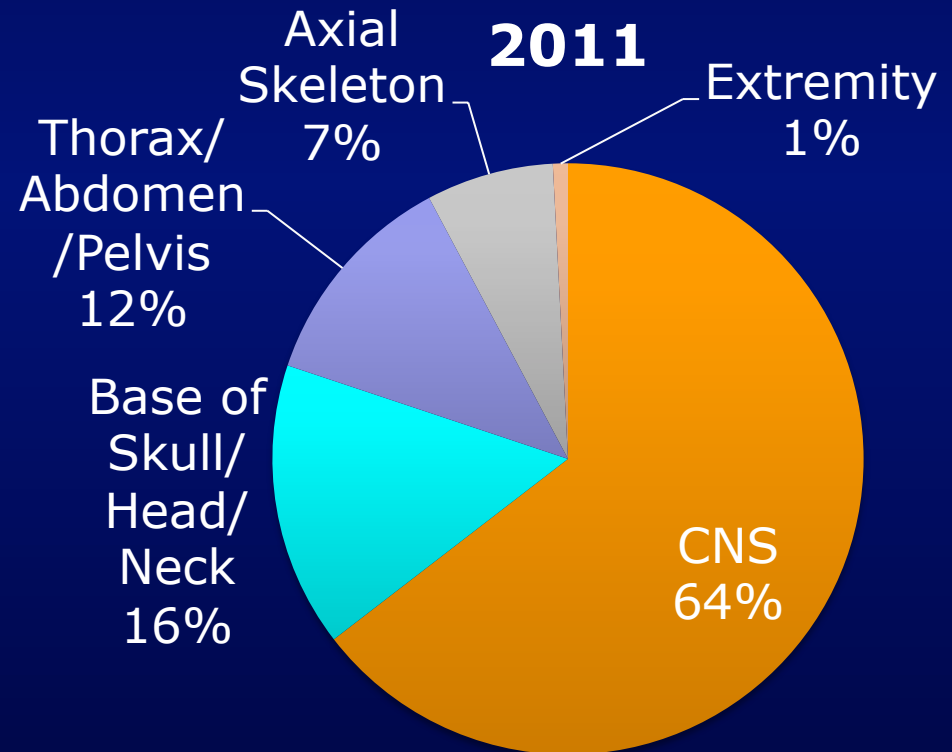
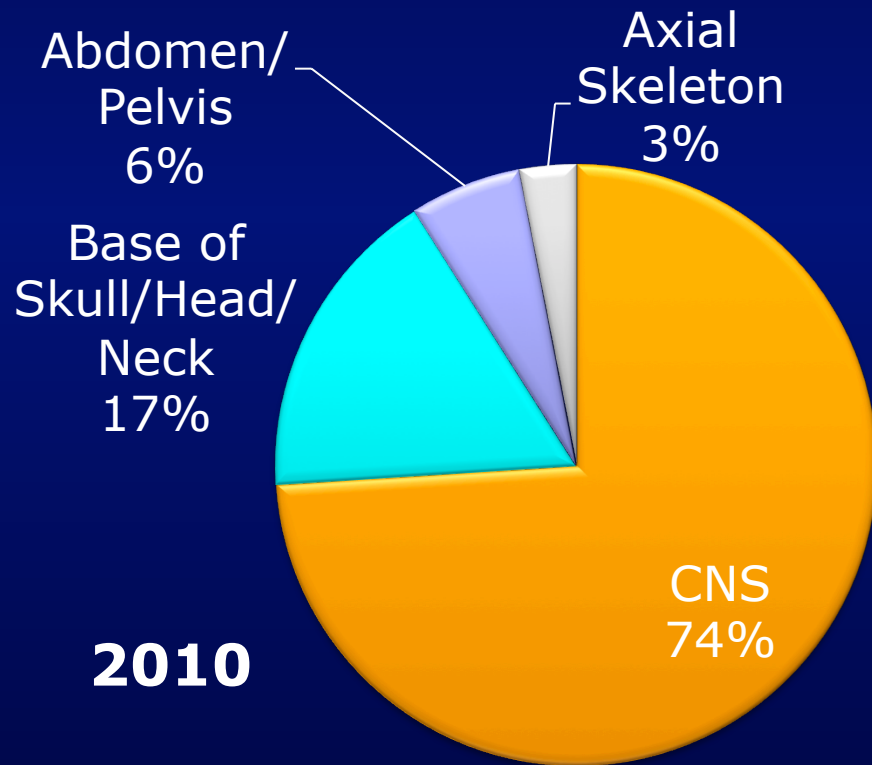
Peds Proton Pattern of Care 2011:

Variation of histology at the 3 largest pediatric programs



Data: PPF/NAPT

Peds Proton Patterns of Care



Conclusion

- In 2011, all operating proton centers were treating children
 - 31.8% increase in number of pediatric patients treated
- Wide variety of diagnoses treated, but younger patients with CNS tumors make up the majority of patients

Looking Ahead

- Over the next 5 years, another 5-10 proton centers are expected to open in the United States
- With an increasing number of pediatric patients treated, the importance of an experienced multidisciplinary pediatric team cannot be understated
 - $\frac{1}{2}$ of the top tumors require concurrent chemotherapy
 - $\sim\frac{1}{2}$ of patients require anesthesia support