2016 WHO Classification of Central Nervous System Tumors
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Presenter: Carol Kruchko
2016 WHO Classification of Tumors of the CNS
Steps involving many years and many discoveries

Brain & CNS Classification Schemes – Histology only
2000 WHO influences CBTRUS Histology Groupings

Replicated Biomarker Studies

Neuropathologists meet in Haarlem
Discuss implications of biomarkers on histologies and propose a layered classification to include histology & biomarker

Neuropathologists meet in Lyon
Agree diagnosis improved with addition of biomarkers & adopt layered classification scheme for certain histologies

Published WHO Classification of Tumours of the Central Nervous System in June 2016
Improvements in Classification with Molecular Profiling

- Definitive histology diagnosis
- Lessens disagreement among neuropathologists
- Personalized Patient Care
Snapshot of WHO Classification, 2016

Diffuse astrocytoma, IDH mutant, 9400/3
Diffuse astrocytoma IDH-wildtype, 9400/3 provisional code
Diffuse astrocytoma, NOS, 9400/3

Glioblastoma, IDH-wildtype, 9440/3
Glioblastoma, IDH-mutant, 9445/3 approved code
Glioblastoma, NOS, 9440/3

Diffuse midline glioma, H3K27M-mutant 9385/3 approved code

Oligodendroglioma, IDH mutant and 1p/19q codeleted , 9450/3
Oligodendroglioma, NOS, 9450/3

Anaplastic oligodendroglialoma, IDH mutant and 1p/19q codeleted, 9451/3
Anaplastic oligodendroglialoma, NOS, 9451/3 provisional code
Implications for Cancer Registration

• Requires biomarker for certain histology diagnosis
• Pathology report will include biomarker for certain histology diagnosis
• Necessitates nomenclature and coding changes in ICD-O-3
• Requires complex coordination
What’s Being Done?

• Cross Discipline Cooperation
  – CDC, CAP, CBTRUS presentation during Society for Neuro-Oncology Education Day, November 2016 to promote use of CAP eCC

• Comprehensive Communication
  – NAACCR Provides 2018 Implementations and Timeline
  – CBTRUS takes brain tumor registration message to clinical/research standard setters and vice-versa

• Comprehensive Preparation
  – CBTRUS Neuro-Pathology Team working to incorporate 2016 WHO into its future Histology Grouping Scheme
Unity and Movement for Optimum Patient Care

2016 WHO Classification of Tumors of the Central Nervous System

Central Brain Tumor Registry of the United States
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