

Developmental Disabilities: From Biology to Policy
 Winter 2013-2014
 Course Instructor: Heidi M Feldman MD PhD
 Teaching Assistant: Lauren M Hubner MD

Complete Syllabus
Topics, Readings, Assignments, Guests

Monday	Details of Session and Readings	Wednesday	Details of Session and Readings
01/06/14	<p><u>Introduction to Course</u></p> <ul style="list-style-type: none"> • Goals and Objectives • Requirements • Grading • Introduction to fellow students <p>Student experiences with developmental disabilities</p> <ul style="list-style-type: none"> • Personal reflections • Portrayal of developmental disabilities in the media and culture <p>Preferred use of language</p> <ul style="list-style-type: none"> • Person-first language • The R-word • Jargon-busting 	01/08/14	<p><u>Definitions and conceptualizations</u></p> <ul style="list-style-type: none"> • Definitions of disability • Implications of different definitions • Epidemiology <p>Contrasting models</p> <ul style="list-style-type: none"> • Medical • Social • Interdependence <p>Taxis: New York City is replacing its taxi fleet. Should they purchase all accessible taxis? How would you argue this question from the different models (medical, social, interdependent) of disability?</p> <p><u>Readings for this class</u> <i>Redesigning Health Care for Children with Disabilities</i>, Chapters 1 and 2 http://www.taxisforall.com/</p>
01/13/14	<p><u>Down syndrome: Basics</u></p> <ul style="list-style-type: none"> • Genetics • Physical features • Intellectual features • Neuropsychological profile • Life span considerations • Prenatal testing <p>Team Debate: All women in the US should have the current best screening test for Down syndrome. (Be prepared to take either side in this one)</p> <p>Guest (pending): Judy Richardson and Michael Seiders</p> <p><u>Readings for this class</u> DBP Fourth Edition, Chapter 25 https://www.ndss.org/Down-Syndrome/What-Is-Down-Syndrome/ http://www.ncbi.nlm.nih.gov/pubmed/16135588 http://www.sciencedaily.com/releases/2013/06/130607085203.htm</p>	01/15/14	<p><u>Biomedical approaches to treatment of intellectual disability in Down Syndrome</u></p> <ul style="list-style-type: none"> • Review of mouse models for DS • Findings about synaptic function • Findings about norepinephrine • Implications for treatment • Other treatment strategies <p>Discussion:</p> <ul style="list-style-type: none"> • How would you design a study to test whether a drug improves cognitive function in adults with DS? Children with DS? • What are the ethical considerations in treating intellectual disability with medication? <p><u>Readings for this class</u> Reeves, R. H., & Garner, C. C. (2007). A year of unprecedented progress in Down syndrome basic research. <i>Mental Retardation & Developmental Disabilities Research Reviews</i>, 13(3), 215-220. Capone GT. 2010. The emergence of pharmacotherapies for cognitive function in Down syndrome. <i>Am J Med Genet Part A</i> 152A:3026–3027. Fernandez, F., Morishita, W., Zuniga, E., Nguyen,</p>

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			J., Blank, M., Malenka, R. C., et al. (2007). Pharmacotherapy for cognitive impairment in a mouse model of Down syndrome. <i>Nature Neuroscience</i> 10, 411 - 413 (2007)
01/20/14	MLK NO CLASS	01/22/14	<u>Inclusion and Participation</u> <ul style="list-style-type: none"> • History from antiquity to present • Importance and challenges of participation • Introduction of the International Classification of Functioning, Disability and Health (ICF) <p>Seeing it in action: Introduction to community-based services for individuals with disabilities. Guest: Sheraden Nicholau, Associate Director of Abilities United</p> <p><u>Readings for this class</u> <i>Redesigning Health Care for Children with Disabilities</i>, Chapter 4, 5, 6 Towards a Common Language for Functioning, Disability and Health: ICF http://www.who.int/classifications/icf/training/icf/beginnersguide.pdf</p> <p>Reflection #1 Due (Suggestion if you are stuck: What have you learned thus far in the course? What story or example in the book touched you and why?)</p>
01/27/14	<u>Social approaches to improve learning: Special education</u> <ul style="list-style-type: none"> • History of the development of the rights to special education • Key elements of PL 94-142 • Services for children birth to 3 • Strategies for implementing special education: special classes/schools, mainstreaming, inclusion <p>Discussion: What would you choose for your child if your child qualified for special education?</p> <p><u>Readings for this class</u> DBP Fourth Edition, Chapter 93 and 92 <i>Redesigning Health Care for Children with Disabilities</i>, Chapter 13</p>	01/29/14	<u>Evolution and evaluation of special education</u> <ul style="list-style-type: none"> • Accomplishments of the law • Changes to the law overtime • Response to intervention approach • Evaluation of special education as a strategy to improve cognition and learning • After education: Transition to adulthood <p>Guest (pending): Brooke Heymach</p> <p><u>Readings for this class</u> http://www2.ed.gov/policy/speced/leg/idea/history.html http://www.wrightslaw.com/idea/index.htm Ardoin et al, <i>Journal of Psychoeducational Assessment</i> December 2005 23 (4) 362-380</p>

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1/27/14	First Community Visit to Abilities United. Second visit to be arranged individually.	2/4/14	
02/03/14	<p><u>Cerebral Palsy: Basics</u></p> <ul style="list-style-type: none"> Description of the condition Associated findings Basic understanding of the causes <p>Videos of individuals with CP</p> <p>Guest: Kathy Zonana and Max</p> <p>Readings for this class http://www.ninds.nih.gov/disorders/cerebral_palsy/cerebral_palsy.htm DBP Fourth Edition, Chapter 67</p>	02/05/14	<p><u>Cerebral Palsy: Biomedical approaches to treatment of cerebral palsy</u></p> <ul style="list-style-type: none"> Etiology and pathogenesis Management options Choosing among the options <p>Readings for this class http://children.webmd.com/tc/cerebral-palsy-treatment-overview Ryll et al, Effects of leg muscle botulinum toxin A injections on walking in children with spasticity-related cerebral palsy: a systematic review <i>Developmental Medicine & Child Neurology</i> 2011, 53: 210–216 Myofascial structural integration: a promising novel therapy for young children with spastic cerebral palsy. <i>JEBCAM</i> 2012, 17:131-135</p> <p>Reflection #2 Due (Suggestion if you are stuck: What did you notice in your visit to Abilities United? Or What changes will you make in your life or approach given the course to date?)</p>
02/10/14	<p><u>Social approaches to improving mobility: Technology</u></p> <ul style="list-style-type: none"> Stories of individuals with CP and other disabilities in schools and workplaces Types of access: Architecture, Mobility devices, Assistive technology, Assistive communication <p>Discussion: What factors affect function and the quality of life of children with cerebral palsy?</p> <p>Guest: Phil Weaver</p> <p>Readings for this class</p> <ul style="list-style-type: none"> DBP Fourth Edition, Chapter 97 http://ucp.org/resources/assistive-technology/ and follow some of the links 	02/12/14	<p><u>Social approaches to improving access: Americans with Disabilities Acts of 1990 and 2010</u></p> <ul style="list-style-type: none"> Key elements of the law Accessibility standards Employment Other provisions Implementation successes and challenges <p>Discussion: How far should we go in improving access?</p> <p>Guest: Michael Nunez, Disability Rights Advocate</p> <p>Readings for this class</p> <ul style="list-style-type: none"> http://www.ada.gov/ http://www.eeoc.gov/facts/ada18.html http://www.ncd.gov/newsroom/publications/2007/pdf/implementation_07-26-07.pdf

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02/17/14	<p>Presidents' Day</p> <p>NO CLASS</p>	02/19/14	<p><u>Autism: Basics</u></p> <ul style="list-style-type: none"> • Description of the condition • Epidemiology • Core Features • Analysis of videos of children with autism • The role of immunizations in the etiology of autism • The persistence of public worry about immunizations and autism <p><u>Readings for this class</u></p> <ul style="list-style-type: none"> • DBP Fourth Edition, Chapter 69 • www.autismspeaks.org, 100 day kit (skim) • Parker et al Thimerosal-Containing Vaccines and Autistic Spectrum Disorder: A Critical Review of the published original data. <i>Pediatrics</i> 2004; 114-793-804 <p>Paper #1 Due</p>
02/24/14	<p><u>Autism: Biomedical approaches to treatment of autism</u></p> <ul style="list-style-type: none"> • Available medications and their limitations • Oxytocin, a new strategy • Other approaches based on genetics and proteomics <p>Guest: Antonio Hardan MD, Child Psychiatrist</p> <p><u>Readings for this class</u></p> <p>http://www.autismspeaks.org/what-autism/treatment/medicines-treating-core-symptoms</p> <p>Huffman et al Management of Symptoms in Children With Autism Spectrum Disorders: A Comprehensive Review of Pharmacologic and Complementary-Alternative Medicine Treatments, 2011, 32(1), 56-68</p> <p>http://www.nature.com/nature/journal/v501/n7466/full/nature12518.html</p> <p>http://www.autismspeaks.org/science/science-news/study-provides-new-clues-</p>	02/26/14	<p><u>Social approaches to improving lives of individuals with autism</u></p> <ul style="list-style-type: none"> • Combating Autism Act of 2006, reauthorized in 2011 <ul style="list-style-type: none"> • Pressure for federal action • Strategies available to the federal government • Key provisions of the law • Challenges on reauthorization • CA state initiatives regarding autism <p><u>Readings for this class</u></p> <p>http://www.autismspeaks.org/government_affairs/combating_autism_act.php</p> <p>http://georgewbush-whitehouse.archives.gov/news/releases/2006/12/20061219-3.html</p> <p>http://mchb.hrsa.gov/autism/</p> <p>http://www.aucd.org/docs/publications/2013caai_impact.pdf</p> <p>http://www.autismspeaks.org/advocacy/advocacy-news/ca-state-employees-gain-aba-coverage-through-court-ruling</p> <p>http://www.autismspeaks.org/advocacy/insurance/faqs-state-autism-insurance-reform-laws (follow</p>

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03/03/14	<u>Stem cells: An emerging issues in the biological basis of disabilities</u> <ul style="list-style-type: none"> • How might it work • For what conditions would it be appropriate • Potential benefits • Risks <p>Readings for this class http://celleng.sjtu.edu.cn/pic/xq19.pdf http://ucp.org/resources/from-the-medical-director-s-desk/stem-cell-therapy/ Titomanlio et al Stem cell therapy for neonatal brain injury <i>Annals of Neurology</i> 2011;70:698-712</p>	03/05/14	<u>Future issues in policy for individuals with disabilities</u> <ul style="list-style-type: none"> • Affordable Care Act <p>Discussion: Come to class with a problem that you have experienced in the lives of individuals with disabilities to discuss possible policy approaches to remedy the problem</p> <p><u>Readings</u> Find readings that address the issue you want to create policy for <i>Redesigning Health Care for Children with Disabilities, Chapter 12, 13</i></p> <p>Reflection #3 Due</p> <p>Personal discussions of Paper #2 (commit to question and proposal to answer)</p>
3/10/14	<u>Reflections on visits to Abilities United</u> <ul style="list-style-type: none"> • What did you notice? • What did you think? • Questions, comments • What other services have you experienced and how did this compare? • What could be better? 	3/12/14	<u>Final Discussion</u> <ul style="list-style-type: none"> • Discussion regarding final papers • What have we learned? • What do we want to learn more about? • In the future, what should this course do differently?
3/17/14	No Class Meeting	03/19/14	No Class Meeting Paper #2 Due