

# **POZNÁMKY**

## **1. kapitola: Chybějící data**

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30. Na tento problém jako první upozornil Jamie Heywood z PatientsLikeMe, který strávil spoustu pokusů a omylů u zdrojů, aby replikoval výzkumná zjištění v jiné oblasti medicíny. Naposledy, když jsme se viděli, hovořili jsme o zapsání jeho myšlenky, že pravděpodobnost, že je nějaké tvrzení pravdivé, je přímo úměrná nákladům vynaloženým

na jeho pronesení a naopak nepřímo úměrná nákladům vynaloženým na jeho vyvrácení. Neudělali jsme to a dokud to neuděláme, bude popis naší konverzace jediným odkazem na tuto zajímavou myšlenku.

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  50. Tohle je jeden z mnoha příběhů, kde doporučuji zanorít se do hrůzných podrobností, jestli vás to zajímá. Dobrým místem, kde začít, je blog prof. Davida Colquhouna na toto téma s mnoha odkazy: <http://www.dcscience.net/?p=193> a tento článek v BMJ napsaný právníkem, abych udělal radost právníkům, kteří čtou tuto knihu: Dyer C. Aubrey Blumsohn: Academic who took on industry. BMJ. 2009 Dec 15; 339 (dec15 1):b5293–b5293.
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57. Jejich delegaci vedl Frank Wells: jeho učebnice o podvodech je fantastická. Říkám vám to proto, že byste měli pochopit, že tohle nejsou všechno špatní lidé s povahou, která je z podstaty tajnůstkářská.
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64. Dobrý (ač stručný) přehled toho, jak se pokusit a získat informace z neakademických zdrojů, je zde: Chan A.-W. Out of sight but not out of mind: how to search for unpublished clinical trial evidence. *BMJ*. 2012 Jan 3; 344(jan03 2):d8013–d8013.
65. Dopisy i zprávu si můžete přečíst online. Je to poutavé čtení s mnoha zajímavými a ohavnými podrobnostmi, takže vám vřele doporučuji to udělat: Medicines and Healthcare products Regulatory Agency (MHRA) [www.mhra.gov.uk](http://www.mhra.gov.uk). GSK investigation concludes [Internet]. [citováno 29. dubna 2012]. Dostupné na: <http://www.mhra.gov.uk/Howweregulate/Medicines/Medicinesregulatorynews/CON014153>

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74. Tento příběh je vylíčen napříč různými publikacemi od Cochraneova týmu a zdejší vysvětlení je převzato z jejich práce, publikovaných odpovědí Roche a diskusí s Cochraneovým týmem. Nejlepší místo, kde se dozvíté první polovinu tohoto příběhu, je následující článek: Doshi P. Neuraminidase inhibitors – the story behind the Cochrane review. BMJ. 2009; 339. A pro druhou polovinu doporučuji tento volně přístupný článek: Doshi P., Jefferson T., Del Mar C. (2012) The Imperative to Share Clinical Study Reports: Recommendations from the Tamiflu Experience. PLoS Med 9(4): e1001201. doi:10.1371/journal.pmed.1001201 <http://bit.ly/HIbwqO>
75. Tady jde o fascinující a chaotickou novou oblast. Níže uvedený článek poskytuje dobrý souhrn o významu analyzování kompletních výzkumných programů i o nesrovnalostech nalezených o Tamiflu mezi jednotlivými článci a Zprávami o klinických studiích: Jefferson T., Doshi P., Thompson M., Heneghan C., Group CARI. Ensuring safe and effective drugs: who can do what it takes? BMJ. 2011 Jan 11; 342(jan11 1):c7258–c7258.
76. Tohle vše pochází z: Jefferson T., Doshi P., Thompson M., Heneghan C., Group CARI. Ensuring safe and effective drugs: who can do what it takes? BMJ. 2011 Jan 11; 342(jan11 1):c7258–c7258.

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81. Pokud vás zajímá tento příběh, odkazy na primární dokumenty jsou všechny zde: Diabetes drug ‘victory’ is really an ugly story about incompetence. Ben Goldacre, *The Guardian*. 2010 Jul 17 [citováno 2. května 2012]; Dostupné na: <http://www.badscience.net/2010/07/pharmaco-epidemiology-would-be-fascinating-enough-even-if-society-didnt-manage-it-really-really-badly/>
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84. Tohle je sáhodlouhý příběh, který se dostatečně vypráví jinde. Začněte tady: Curfman G. D., Morrissey S., Drazen J. M. Expression of concern reaffirmed. *N. Engl. J. Med.* 2006 Mar 16; 354(11):1193.
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86. Yaleský projekt otevřeného datového archivu neboli YODA je dobrým příkladem toho, jak by to jednou mohlo vypadat.

## **2. kapitola: Odkud se berou nové léky?**

1. Doporučuji klasickou učebnici pro mediky „Rang and Dale“: Rang & Dale’s Pharmacology. 6th ed. Churchill Livingstone; 2007. Ale také tuto práci o regulačním procesu okolo raného vývoje léků: Friedhoff L. T. New Drugs: An Insider’s Guide to the FDA’s New Drug Approval Process for Scientists, Investors and Patients. 1st ed. PSPG Publishing, 2009.

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13. DRUG TESTING GOES OFFSHORE – 8. srpen 2005 [Internet]. [citováno 11. února 2012]. Dostupné na: [http://money.cnn.com/magazines/fortune/fortune\\_archive/2005/08/08/8267653/index.htm](http://money.cnn.com/magazines/fortune/fortune_archive/2005/08/08/8267653/index.htm)
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15. Všechny tyto otázky okolo výzkumů v rozvojových zemích jsou dobře zdokumentovány ve dvou knihách: Shah S. *BODY HUNTERS, THE: Testing New Drugs on the World's Poorest Patients*. SCIE. THE NEW PRESS; 2007. A Petryna A. *When Experiments Travel: Clinical Trials*

- and the Global Search for Human Subjects. 1st ed. Princeton University Press; 2009.
16. Ethical and Scientific Implications of the Globalization of Clinical Research Seth W. Glickman, M.D., M.B.A., John G. McHutchison, M.D., Eric D. Peterson, M.D., M.P.H., Charles B. Cairns, M.D., Robert A. Harrington, M.D., Robert M. Califf, M.D., a Kevin A. Schulman, M.D. N Engl J Med 2009; 360:816–823. 19. únor 2009.
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  23. Depeše amerického velvyslanectví, pondělí 20. dubna 2009, 16:00, Abuja 000671 ‘Pfizer reaches preliminary agreement for \$75m settlement’ [citováno 11. února 2012]. Dostupné na: <http://www.guardian.co.uk/world/us-embassy-cables-documents/203205>
  24. Depeše WikiLeaks: Pfizer ‘used dirty tricks to avoid clinical trial payout’ – Business – The Guardian [Internet]. [citováno 11. února 2012]. Dostupné na: <http://www.guardian.co.uk/business/2010/dec/09/wikileaks-cables-pfizer-nigeria>

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26. Goodyear M. D. E., Lemmens T., Sprumont D., Tangwa G. Does the FDA have the authority to trump the Declaration of Helsinki? *BMJ*. 2009 Apr 21; 338(apr21 1):b1559–b1559.

### **3. kapitola: Podivná regulace léčiv**

1. Royal College of Physicians, London UK. INNOVATING FOR HEALTH. Patients, physicians, the pharmaceutical industry and the NHS. Únor 2009. Zpráva pracovního týmu.
2. Jestli teď máte velké zmatky okolo Evropské agentury pro léčiva a britského MHRA a toho, jaký vztah mezi sebou vlastně mají, je to docela prosté. MHRA schvaloval léky dříve, EMA je schvaluje teď, některou místní práci však předala starším národním regulátorům, zvláště dohled a komunikaci, stejně jako část schvalovacího personálu.
3. Doporučuji práci Johna Abrahama, sebranou zde: <http://www.sussex.ac.uk/profiles/6>
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33. <http://www.nytimes.com/2004/10/12/business/media/12drug.html>
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36. Tady bych měl přiznat svůj zájem: sedím ve finanční radě, která řeší přesně tuto otázku každé čtvrtletí pro program NHS „Hodnocení zdravotnické technologie“. Tento proud financování je určen speciálně na odhalování výzkumů, které je zapotřebí udělat, ale které nebude financovat žádná firma, na porovnávání jedných léků s jinými, a pokud si jste vědomi nějakých významných oblastí, kde nevíme, který ze dvou významných léků je lepší, měli byste si tu podat žádost (nebo pokud jste líní, napište mi e-mail).
37. Jestli vás hodně zajímá toto téma, v tomto detailu tu spočívá vážný problém. Mezinárodní společnost bulletinů o lécích, která zastupuje akademiky a farmaceuty vytvářející přívětivá shrnutí údajů pro lékaře, po pět let vedla kampaň za to, aby získala přístup k čemuži jménem Signal, publikaci WHO, která hovoří o otázkách bezpečnosti léků vzešlých z nezpracovaných dat z kazuistik. WHO neustále odmítala a trvala na tom, že zprávu smí vidět pouze „národní zdravotnické úřady“, ale v roce 2012 změnila názor a nyní plánuje širší přístup i pro jiné nezávislé skupiny. Tím však sága bohužel nekončí. Farmaceutickým firmám se stále povoluje prvotní přístup, aby mohly „číst a komentovat“ před publikací. A Signal je pouze publikace popisující výsledky, nikoli jednotlivé případové studie, které jsou shromážděny v tzv. VigiBase, jež zůstává nadále tajná. Údaje z UK a USA jsou dostupné snáz, ale data EU, jak asi čekáte, nikoliv. Víc si můžete přečíst v tiskové zprávě a na webové stránce ISDB: <http://www.isdbweb.org/publications/view/pharmacovigilance-data> (‘Broadening access to signal is a positive step, but access to VigiBase is also needed’, ISDB, 15. únor 2012).
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