Online Resources 1-3

Title:

Spontaneous reporting on adverse events by consumers in the United States: an analysis of the Food and Drug Administration Adverse Event Reporting System database

Authors:

Tadashi Toki¹ and Shunsuke Ono¹

Affiliation:

1 Laboratory of Pharmaceutical Regulation and Sciences, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan

Address: 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

Corresponding author:

Shunsuke Ono, PhD.

Email: shun-ono@mol.f.u-tokyo.ac.jp

Phone: +81-3-5841-1691

Online Resource 1. Reporting rates (report completeness) for each item in spontaneous reports by the type of reporters

Filled reports / All reports (Reporting rate%) CN UN PH OT MD 1038/1068 (97%) Patient sex 9068/9461 (96%) 10935/11309 (97%) 1155/1165 (99%) 2758/2811 (98%) p-value (vs CN) 0.034 0.381 <0.001 0.076 <0.001 p-value (vs UN) 0.001 < 0.001 9894/11309 (87%) 1045/1165 (90%) 2358/2811 (84%) 948/1068 (89%) 7455/9461 (79%) Patient age p-value (vs CN) <0.001 0.226 0.476 < 0.001 p-value (vs UN) < 0.001 <0.001 <0.001 5903/9461 (62%) 2889/11309 (26%) 956/1165 (82%) 902/2811 (32%) Patient weight 593/1068 (56%) p-value (vs CN) <0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 <0.001 p-value (vs UN) 839/1068 (79%) 5804/9461 (61%) 9104/11309 (81%) 612/1165 (53%) 2029/2811 (72%) Indication p-value (vs CN) 0.000 0.127 < 0.001 < 0.001 p-value (vs UN) < 0.001 < 0.001 < 0.001 694/1068 (65%) 6372/9461 (67%) 8215/11309 (73%) 946/1165 (81%) 2052/2811 (73%) Event date p-value (vs CN) 0.118 < 0.001 < 0.001 < 0.001 p-value (vs UN) < 0.001 < 0.001 < 0.001 Route of primary suspect drug 587/1068 (55%) 5115/9461 (54%) 8860/11309 (78%) 571/1165 (49%) 1933/2811 (69%) p-value (vs CN) 0.576 < 0.001 0.005 < 0.001 p-value (vs UN) < 0.001 0.001 < 0.001 1362/9461 (14%) 1230/11309 (11%) 277/1165 (24%) 304/2811 (11%) Secondary suspect drug 142/1068 (13%) p-value (vs CN) 0.030 0.330 0.016 < 0.001 p-value (vs UN) < 0.001 < 0.001 < 0.001 Concomitant drug 569/1068 (53%) 4629/9461 (49%) 2630/11309 (23%) 320/1165 (27%) 448/2811 (16%) p-value (vs CN) 0.007 < 0.001 < 0.001 < 0.001 p-value (vs UN) < 0.001 < 0.001 < 0.001

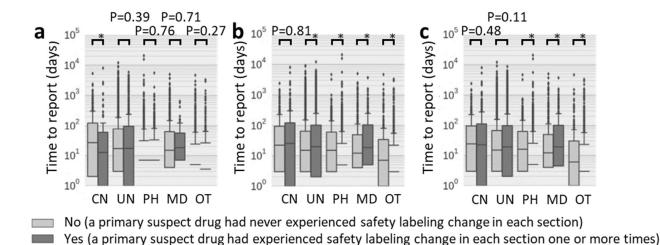
CN for consumer, UN for "unknown occupation" reporter, PH for pharmacist, MD for physician, and OT for other healthcare professional. P values were calculated from Chi-square test.

Online Resource 2. Proportions of reports (a) which have any known adverse drug reactions, (b) for which primary suspect drug experienced safety labeling change (SLC) in the boxed waring, (c) for which primary suspect drug experienced SLC in the waring section, and (d) for which primary suspect drug experienced SLC in the precaution section, by the type of reporters

"Yes" reports / All reports (Proportion%)

	CN	UN	PH	MD	OT
(a) Primary suspect drug known	294/553 (53%)	3182/5616 (57%)	3703/6057 (61%)	384/658 (58%)	900/1522 (59%)
p-value (vs CN)	-	0.114	<0.001	0.070	0.015
p-value (vs UN)	-	-	<0.001	0.405	0.084
(b) SLC in boxed warning	517/1068 (48%)	3822/9461 (40%)	5712/11309 (51%)	345/1165 (30%)	1586/2811 (56%)
p-value (vs CN)	-	<0.001	0.189	<0.001	<0.001
p-value (vs UN)	-	-	<0.001	<0.001	<0.001
(c) SLC in warning	176/1068 (16%)	1324/9461 (14%)	1872/11309 (17%)	80/1165 (7%)	635/2811 (23%)
p-value (vs CN)	-	0.028	0.951	<0.001	<0.001
p-value (vs UN)	-	-	<0.001	<0.001	<0.001
(d) SLC in precaution	524/1068 (49%)	3834/9458 (41%)	5911/11305 (52%)	369/1165 (32%)	1615/2810 (57%)
p-value (vs CN)	-	<0.001	0.044	<0.001	<0.001
p-value (vs UN)	-	-	<0.001	<0.001	<0.001

CN for consumer, UN for "unknown occupation" reporter, PH for pharmacist, MD for physician, and OT for other healthcare professional. P-values were calculated from Chi-square test. This table was attached as supplement data for Fig. 4 and Online Resource 3.



Online Resource 3. Distributions of time to report grouped by whether a primary suspect drug in a report experienced safety labeling changes in black box warning (a), warning (b), or precaution (c) sections.

Boxplot with whiskers with maximum 1.5 interquartile range. Any data not included between whiskers are plotted as an outlier with a dot. When the value for the first quartile is zero, the box is not shown. CN for consumer, UN for "unknown occupation" reporter, PH for pharmacist, MD for physician, and OT for other healthcare professional. P-values were calculated from Wilcoxon rank-sum test. * indicates p<0.05.