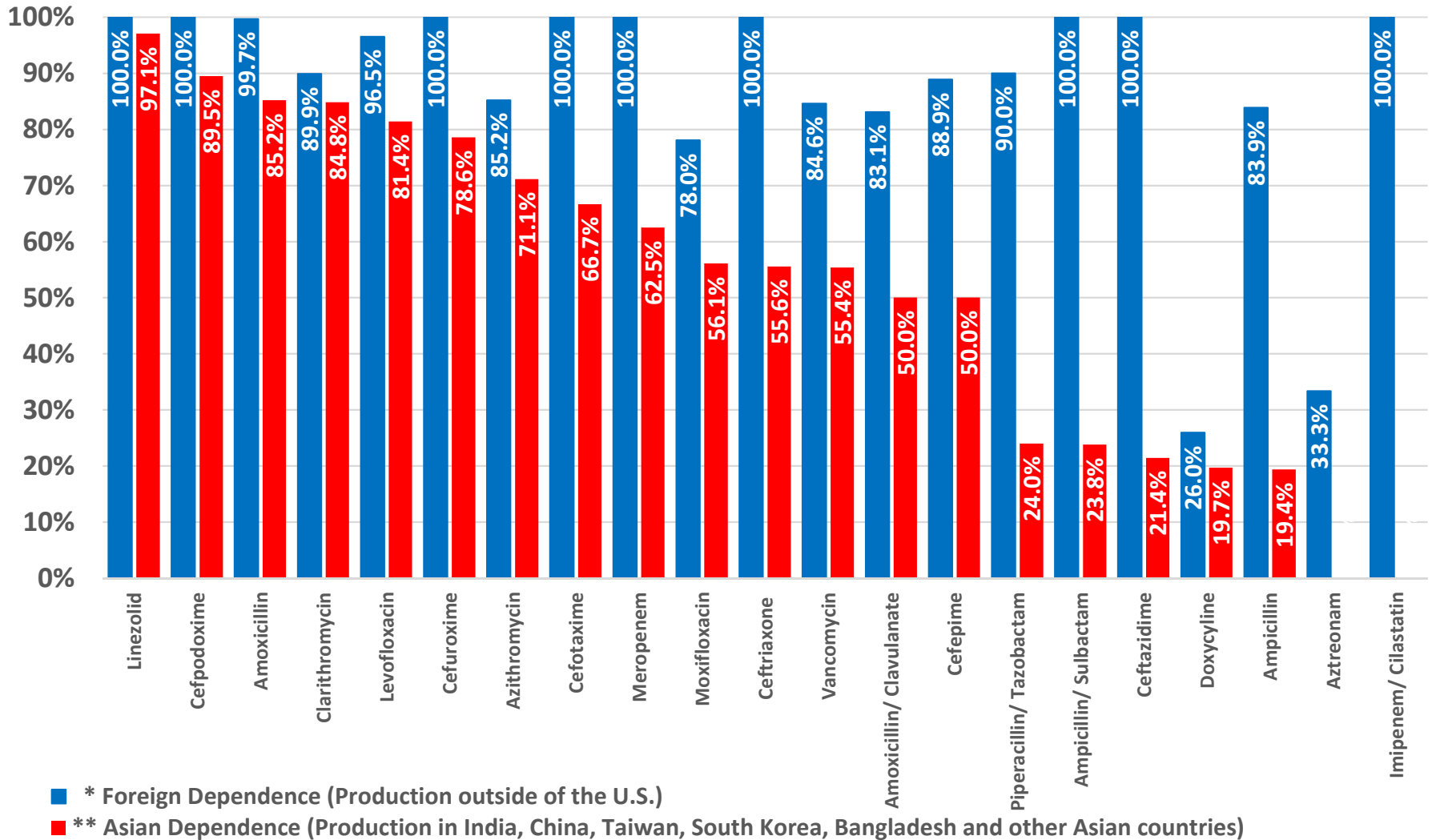


Critical Antibiotics & Foreign Dependence: % of NDCs by Geographic Origin of Manufacture

% of NDCs w/Label
& Country of Origin



■ * Foreign Dependence (Production outside of the U.S.)
 ■ ** Asian Dependence (Production in India, China, Taiwan, South Korea, Bangladesh and other Asian countries)

Source: Antibiotics identified in Metlay J, et al, Diagnosis and Treatment of Adults with Community-acquired Pneumonia, Am J Respir Crit Care Med Vol 200, Iss 7, pp e45–e67, Oct 1, 2019. The Geographic origin of drug products at the NDC level were identified by extracting data from the FDA Drug Label Files as of February 2, 2020 and found at <https://dailymed.nlm.nih.gov/dailymed/spl-resources-all-drug-labels.cfm>.

Critical Antibiotics & Foreign Dependence: % of NDCs by Geographic Origin of Manufacture

Source: FDA's Structured Product Labeling (SPL)1 data as reported in FDA Label files as of Sept. 16, 2019.

<i>Measure</i>	Linezolid	Cefpodoxime	Amoxicillin	Clarithromycin	Levofloxacin	Cefuroxime	Azithromycin	Cefotaxime	Meropenem	Moxifloxacin	Ceftriaxone	Vancomycin	Amoxicillin/Clavulanate	Cefepime	Piperacillin/Tazobactam	Ampicillin/Sulbactam	Ceftazidime	Doxycycline	Ampicillin	Aztreonam	Imipenem/Cilastatin	All Antibiotics
# of Active DMFs	19	6	15	8	25	31	20	7	18	14	16	15	16	14	14	12	13	10	22	6	9	318
# of Labelers	26	8	34	31	56	19	54	3	14	34	20	26	32	12	13	11	7	81	22	3	2	481
# of NDCs	73	32	627	144	517	71	350	14	33	58	110	118	341	30	68	196	24	655	196	9	7	3461
# NDCs/Labeler	2.8	4.0	18.4	4.6	9.2	3.7	6.5	4.7	2.4	1.7	5.5	4.5	10.7	2.5	5.2	17.8	3.4	8.1	8.9	3.0	3.5	7.2
# NDCs w/Label	42	19	442	105	443	44	216	12	16	46	42	68	174	18	50	79	15	481	79	6	6	2412
# NDC Labels w/Country	34	19	324	99	430	28	142	12	16	41	36	65	130	18	50	73	14	416	73	6	6	2043
% of NDCs w/Label	57.5%	59.4%	70.5%	72.9%	85.7%	62.0%	61.7%	85.7%	48.5%	79.3%	38.2%	57.6%	51.0%	60.0%	73.5%	40.3%	62.5%	73.4%	40.3%	66.7%	85.7%	69.7%
% of NDCs w/Label & Country	46.6%	59.4%	51.7%	68.8%	83.2%	39.4%	40.6%	85.7%	48.5%	70.7%	32.7%	55.1%	38.1%	60.0%	73.5%	37.2%	58.3%	63.5%	37.2%	66.7%	85.7%	59.0%
% of NDC Labels w/Country	81.0%	100.0%	73.3%	94.3%	97.1%	63.6%	65.7%	100.0%	100.0%	89.1%	85.7%	95.6%	74.7%	100.0%	100.0%	92.4%	93.3%	86.5%	92.4%	100.0%	100.0%	84.7%
Country of Production	<i>% of NDCs per Drug & Country</i>																					
USA Produced	0.0%	0.0%	0.3%	10.1%	3.5%	0.0%	14.8%	0.0%	0.0%	22.0%	0.0%	15.4%	16.9%	11.1%	10.0%	0.0%	0.0%	74.0%	16.1%	66.7%	0.0%	21.3%
Foreign Dependence*	100.0%	100.0%	99.7%	89.9%	96.5%	100.0%	85.2%	100.0%	100.0%	78.0%	100.0%	84.6%	83.1%	88.9%	90.0%	100.0%	100.0%	26.0%	83.9%	33.3%	100.0%	78.7%
Asian Dependence**	97.1%	89.5%	85.2%	84.8%	81.4%	78.6%	71.1%	66.7%	62.5%	56.1%	55.6%	55.4%	50.0%	50.0%	24.0%	23.8%	21.4%	19.7%	19.4%	0.0%	0.0%	60.0%
India	88.2%	89.5%	85.2%	53.5%	80.7%	78.6%	62.0%	66.7%	12.5%	53.7%	13.9%	46.2%	50.0%	0.0%	12.0%	23.8%	21.4%	17.1%	19.4%	0.0%	0.0%	54.6%
China	0.0%	0.0%	0.0%	31.3%	0.7%	0.0%	9.2%	0.0%	0.0%	2.4%	41.7%	3.1%	0.0%	50.0%	12.0%	0.0%	0.0%	1.9%	0.0%	0.0%	0.0%	4.3%
Taiwan	5.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	50.0%	0.0%	0.0%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%
Bangladesh	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.1%
South Korea	2.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Italy	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.0%	0.0%	19.4%	0.0%	0.0%	16.7%	46.0%	76.2%	7.1%	0.0%	41.9%	33.3%	100.0%	4.5%
Slovenia	0.0%	0.0%	0.0%	0.0%	12.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.0%
Portugal	0.0%	0.0%	0.0%	0.0%	1.4%	21.4%	4.2%	33.3%	0.0%	0.0%	16.7%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%
Austria	0.0%	10.5%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.3%	0.0%	1.5%	0.0%	0.0%	0.0%	28.6%	0.0%	3.2%	0.0%	0.0%	0.7%
Spain	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.8%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Switzerland	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	7.3%	0.0%	9.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%
Austria, Spain	0.0%	0.0%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Denmark	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	15.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%
Norway	2.9%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%
Romania	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.9%	0.0%	0.0%	0.2%
Ireland	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.5%	0.0%	0.0%	0.1%
Germany	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Ireland, Spain, Austria	0.0%	0.0%	0.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Italy, Austria	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Portugal	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Jordan	0.0%	0.0%	11.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.8%	0.0%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	3.9%
Canada	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	9.9%	0.0%	0.0%	9.8%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	1.0%
Australia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.9%	0.0%	0.0%	0.0%	0.6%
Brazil	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.2%	0.0%	0.0%	42.9%	0.0%	0.0%	0.0%	0.0%	0.5%
Israel	0.0%	0.0%	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

* Foreign Dependence (Production outside of the U.S.)

** Asian Dependence (Production in India, China, Taiwan, South Korea, Bangladesh and other Asian countries)

Critical Antibiotics & Foreign Dependence: % of NDCs by Geographic Origin of Manufacture -- continued

Source: FDA's Structured Product Labeling (SPL)1 data as reported in FDA Label files as of Sept. 16, 2019.

<i>Measure</i>	Linezolid	Cefpodoxime	Amoxicillin	Clarithromycin	Levofloxacin	Cefuroxime	Azithromycin	Cefotaxime	Meropenem	Moxifloxacin	Ceftriaxone	Vancomycin	Amoxicillin/Clavulanate	Cefepime	Piperacillin/Tazobactam	Ampicillin/Sulbactam	Ceftazidime	Doxycycline	Ampicillin	Aztreonam	Imipenem/Cilastatin	All Antibiotics
# of Active DMFs	19	6	15	8	25	31	20	7	18	14	16	15	16	14	14	12	13	10	22	6	9	318
# of Labelers	26	8	34	31	56	19	54	3	14	34	20	26	32	12	13	11	7	81	22	3	2	481
# of NDCs	73	32	627	144	517	71	350	14	33	58	110	118	341	30	68	84	24	655	112	9	7	3680
# NDCs/Labeler	2.8	4.0	18.4	4.6	9.2	3.7	6.5	4.7	2.4	1.7	5.5	4.5	10.7	2.5	5.2	7.6	3.4	8.1	5.1	3.0	3.5	7.7
# NDCs w/Label	42	19	442	105	443	44	216	12	16	46	42	68	174	18	50	48	15	481	31	6	6	2412
# NDC Labels w/Country	34	19	324	99	430	28	142	12	16	41	36	65	130	18	50	42	14	416	31	6	6	2043
% of NDCs w/Label	57.5%	59.4%	70.5%	72.9%	85.7%	62.0%	61.7%	85.7%	48.5%	79.3%	38.2%	57.6%	51.0%	60.0%	73.5%	57.1%	62.5%	73.4%	27.7%	66.7%	85.7%	65.5%
% of NDCs w/Label & Country	46.6%	59.4%	51.7%	68.8%	83.2%	39.4%	40.6%	85.7%	48.5%	70.7%	32.7%	55.1%	38.1%	60.0%	73.5%	50.0%	58.3%	63.5%	27.7%	66.7%	85.7%	55.5%
% of NDC Labels w/Country	81.0%	100.0%	73.3%	94.3%	97.1%	63.6%	65.7%	100.0%	100.0%	89.1%	85.7%	95.6%	74.7%	100.0%	100.0%	87.5%	93.3%	86.5%	100.0%	100.0%	100.0%	84.7%
Country of Production	# of NDCs per Drug & Country																					
USA Produced	0	0	1	10	15	0	21	0	0	9	0	10	22	2	5	0	0	308	5	4	0	436
Foreign Dependence*	34	19	323	89	415	28	121	12	16	32	36	55	108	16	45	42	14	108	26	2	6	1607
Asian Dependence**	33	17	276	84	350	22	101	8	10	23	20	36	65	9	12	10	3	82	6	0	0	1226
India	30	17	276	53	347	22	88	8	2	22	5	30	65	0	6	10	3	71	6	0	0	1115
China	0	0	0	31	3	0	13	0	0	1	15	2	0	9	6	0	0	8	0	0	0	88
Taiwan	2	0	0	0	0	0	0	0	8	0	0	4	0	0	0	0	0	0	0	0	0	19
Bangladesh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
South Korea	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Italy	0	0	0	0	0	0	0	0	4	0	7	0	0	3	23	32	1	0	13	2	6	91
Slovenia	0	0	0	0	53	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	61
Portugal	0	0	0	0	6	6	6	4	0	0	6	2	0	0	0	0	0	0	0	0	0	30
Austria	0	2	0	2	0	0	0	0	0	0	3	0	2	0	0	0	4	0	1	0	0	14
Spain	0	0	0	0	0	0	0	0	0	0	0	0	1	0	10	0	0	0	0	0	0	12
Switzerland	0	0	0	0	3	0	0	0	0	3	0	6	0	0	0	0	0	0	0	0	0	12
Austria, Spain	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Denmark	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Norway	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Romania	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Ireland	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	3
Germany	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Ireland, Spain, Austria	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Italy, Austria	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Portugal	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Jordan	0	0	36	0	0	0	0	0	0	0	0	0	31	0	0	0	0	12	0	0	0	79
Canada	0	0	0	0	0	0	14	0	0	4	0	0	1	0	0	0	0	2	0	0	0	21
Australia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	12
Brazil	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	6	0	0	0	0	10
Israel	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

* Foreign Dependence (Production outside of the U.S.)

** Asian Dependence (Production in India, China, Taiwan, South Korea, Bangladesh and other Asian countries)