

Supplementary Table 1: Years lived with disability (YLDs) for low back pain by provinces/regions and sex (1990 and 2016) (*1000).

	Male						Female						All					
	1990			2016			1990			2016			1990			2016		
	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII
Anhui	140.5	97.3	190.7	149.2	104.8	197.8	174.8	122.5	234.5	205.9	144.3	272.7	315.3	221.7	421.0	355.1	249.2	470.7
Beijing	26.7	18.3	35.3	56.6	39.1	76.1	52.8	37.3	69.6	147.0	103.8	193.0	79.4	55.7	104.7	203.5	143.1	269.0
Chongqing	43.8	30.5	59.0	69.8	48.6	92.3	53.1	37.6	70.9	100.0	70.9	133.7	97.0	67.9	129.1	169.8	118.8	225.3
Fujian	68.4	47.7	90.8	89.9	62.5	120.2	85.7	59.6	114.8	116.8	81.0	156.3	154.0	108.2	205.1	206.6	143.8	275.2
Gansu	56.1	39.1	74.8	64.6	44.8	87.3	67.3	46.9	89.2	86.5	60.2	115.7	123.4	86.3	163.3	151.1	105.2	203.1
Guangdong	116.0	79.2	157.7	229.7	157.2	310.5	145.9	100.4	195.5	268.2	185.5	361.2	261.9	178.5	354.4	497.9	342.9	666.5
Guangxi	101.6	71.5	135.8	116.5	82.2	155.3	124.3	87.8	165.2	155.2	109.1	207.1	225.9	158.9	300.9	271.7	190.2	361.5
Guizhou	76.9	53.2	103.0	82.4	58.0	110.7	94.3	65.7	126.4	112.2	79.4	149.7	171.1	119.1	228.8	194.6	137.9	261.0
Hainan	15.4	10.8	20.6	23.4	16.6	31.7	19.2	13.4	25.5	28.4	20.1	37.9	34.6	24.2	46.2	51.8	36.6	69.1
Hebei	154.5	106.8	210.2	185.0	129.2	245.0	195.9	136.7	260.4	255.0	182.1	339.8	350.4	245.3	468.2	440.0	310.3	585.3
Heilongjiang	85.5	59.4	114.9	102.2	70.5	136.3	104.2	72.2	139.1	143.3	101.2	190.7	189.8	131.7	254.7	245.5	170.9	326.2
Henan	212.2	146.0	287.0	218.6	152.2	292.6	272.8	191.4	361.6	316.2	223.9	419.1	485.0	338.3	647.2	534.8	377.1	711.2
Hubei	119.7	80.8	162.1	123.1	84.4	165.9	141.2	96.6	192.3	154.0	105.8	206.6	260.8	176.6	354.6	277.1	191.8	372.5
Hunan	156.0	108.7	210.9	168.2	117.1	225.9	188.2	132.8	249.4	227.0	159.1	300.8	344.3	241.6	460.0	395.2	278.1	524.4
Inner Mongolia	52.8	36.8	70.7	67.4	46.9	91.5	61.3	43.1	81.8	85.9	61.0	116.4	114.1	79.8	151.7	153.4	107.8	206.7
Jiangsu	171.4	118.3	227.1	195.8	138.9	261.9	225.0	157.1	301.8	275.8	193.9	363.2	396.4	275.9	527.3	471.6	331.8	623.2
Jiangxi	89.1	62.2	120.6	108.1	75.0	145.1	109.5	77.0	145.4	145.8	103.0	195.5	198.6	139.0	266.5	253.9	178.7	339.9
Jilin	53.7	36.2	73.4	63.0	43.6	86.1	65.0	43.9	88.4	84.7	58.7	116.1	118.7	80.5	162.1	147.7	102.3	202.0
Liaoning	102.7	71.7	137.8	117.8	81.5	158.4	129.6	90.6	174.6	167.9	118.6	223.5	232.3	162.2	310.5	285.7	200.8	383.4

Ningxia	10.5	7.3	14.0	16.0	11.1	21.5	12.6	8.8	16.9	20.5	14.4	27.1	23.1	16.2	31.0	36.5	25.5	48.6
Qinghai	10.4	7.2	13.8	14.7	10.1	19.8	12.3	8.6	16.5	18.0	12.5	24.2	22.7	15.8	30.3	32.7	22.6	44.0
Shaanxi	71.2	48.4	96.7	78.0	53.5	105.4	85.9	58.8	118.6	104.1	72.8	139.8	157.1	107.3	215.0	182.1	125.6	245.4
Shandong	190.2	128.5	260.5	207.1	142.6	281.7	245.2	167.1	336.5	288.8	195.7	390.5	435.4	296.3	596.0	495.8	338.1	668.6
Shanghai	37.1	25.4	51.0	64.7	43.8	89.4	43.5	29.8	59.3	76.6	52.5	103.0	80.7	55.1	110.5	141.3	96.6	191.4
Shanxi	71.4	49.5	95.3	90.8	62.8	122.9	86.4	60.9	116.0	119.0	83.9	158.7	157.8	110.7	210.9	209.7	147.4	279.7
Sichuan	280.5	196.4	374.3	202.4	141.9	269.5	344.5	240.9	455.7	282.5	195.4	378.0	625.1	434.3	832.1	484.9	340.9	646.0
Tianjin	21.2	14.8	28.4	37.8	26.3	50.8	27.3	19.2	35.8	43.5	30.3	58.2	48.5	34.1	64.2	81.3	56.6	108.3
Tibet	4.9	3.4	6.6	7.6	5.2	10.3	6.6	4.6	8.8	9.1	6.4	12.1	11.5	7.9	15.4	16.7	11.7	22.3
Xinjiang	35.2	24.6	47.6	56.5	39.4	75.6	41.4	28.9	55.8	69.0	48.6	92.8	76.6	53.3	103.0	125.5	88.1	168.8
Yunnan	79.2	53.8	109.1	98.1	66.9	135.7	94.1	63.8	128.6	123.1	85.0	164.3	173.3	117.7	238.4	221.2	151.9	298.0
Zhejiang	103.0	70.0	142.4	129.4	88.2	178.6	126.7	87.0	174.1	173.6	118.9	236.8	229.7	158.4	314.4	303.0	205.3	413.5
Hong Kong	14.4	10.0	19.3	17.5	12.3	23.2	21.0	15.0	27.7	34.6	24.6	45.5	35.4	25.1	46.9	52.1	37.1	68.8
Macao	0.7	0.5	1.0	1.2	0.8	1.6	1.0	0.7	1.4	1.8	1.3	2.4	1.8	1.2	2.4	3.0	2.1	4.0
China	2772.8	1927.3	3714.5	3253.0	2257.8	4345.3	3458.8	2416.9	4593.8	4439.7	3121.1	5838.3	6231.6	4345.3	8328.1	7692.7	5424.8	10210.3
Changes*				17.3%						28.4%						23.4%		

LUI and UUI is the 2.5 to 97.5 centile values of the 95% uncertainty intervals.

*: Changes is the total mean values at 2016 compared to 1990.

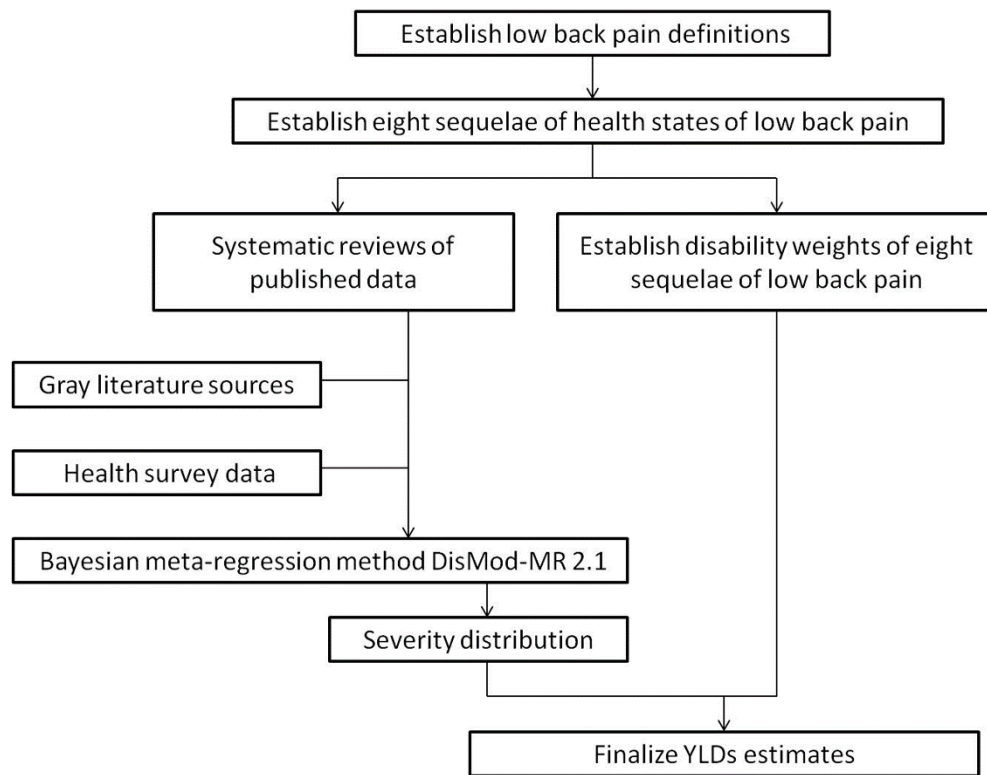
Supplementary Table 2: Age standardized years lived with disability (YLDs) rate (per 100,000 persons) for low back pain by provinces/regions and sex (1990 and 2016).

	Male						Female						All					
	1990			2016			1990			2016			1990			2016		
	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII	Mean	LUI	UII
Anhui	576.7	404.5	770.4	444.6	314.8	592.3	767.4	543.3	1018.7	603.0	420.8	795.0	672.6	474.7	893.3	523.2	368.5	693.3
Beijing	484.5	336.8	636.8	374.9	258.6	502.3	1012.5	718.0	1329.1	1048.9	748.1	1382.8	747.9	528.5	975.4	705.2	502.3	932.4
Chongqing	571.8	397.2	760.2	438.6	307.6	585.6	761.4	538.6	1011.3	595.7	420.7	791.4	664.5	473.1	881.7	517.2	364.6	682.9
Fujian	546.1	382.0	723.1	406.9	283.0	543.8	728.4	508.3	971.3	551.6	382.5	730.7	637.7	448.0	847.7	478.4	332.3	636.1
Gansu	581.8	408.9	770.6	451.0	314.4	599.7	774.2	541.1	1013.6	610.6	427.8	809.4	675.3	473.8	880.2	530.2	368.4	702.3
Guangdong	476.7	326.1	643.0	341.5	235.7	454.4	615.9	424.0	821.0	454.6	315.6	607.4	548.1	377.0	735.8	397.0	275.7	526.7
Guangxi	579.6	405.2	763.8	449.6	318.6	596.2	772.8	547.0	1016.5	610.3	431.2	818.6	675.6	476.8	894.4	530.3	372.2	707.2
Guizhou	580.5	405.3	771.6	452.1	317.0	606.1	775.8	545.8	1031.1	611.8	430.7	811.0	677.0	472.3	899.4	532.8	376.2	707.6
Hainan	568.1	402.2	760.8	431.2	302.9	574.8	757.5	534.5	1004.4	586.2	412.9	774.7	664.6	467.6	883.8	506.1	357.5	666.7
Hebei	574.5	401.1	774.3	441.5	309.8	583.8	765.9	537.1	1006.3	598.1	420.9	798.5	669.6	469.4	884.5	520.4	364.9	690.4
Heilongjiang	558.1	393.5	742.9	415.2	289.1	548.8	741.3	520.6	987.0	564.7	399.6	743.6	646.5	453.8	855.0	491.1	345.2	647.2
Henan	583.2	404.5	777.8	453.5	318.9	600.6	777.2	547.8	1025.0	612.7	435.4	804.3	681.9	480.9	903.0	535.6	380.4	709.6
Hubei	508.5	347.2	684.8	369.0	255.6	497.5	645.2	440.9	865.5	464.5	317.2	619.9	576.9	391.4	777.7	416.8	288.7	557.4
Hunan	576.2	404.3	776.2	443.5	309.1	593.2	765.6	546.6	1005.3	599.4	422.1	790.0	668.5	475.5	885.5	520.5	365.3	686.1
Inner Mongolia	563.9	392.6	750.0	423.8	297.3	567.4	746.8	529.1	988.2	573.0	405.0	761.0	649.1	456.1	858.6	497.7	350.1	662.0
Jiangsu	544.4	376.3	719.9	408.7	285.8	544.6	727.6	512.4	977.5	553.1	390.9	720.9	638.2	448.3	850.4	481.6	337.9	632.0
Jiangxi	573.1	401.0	770.4	437.9	303.9	581.8	760.5	531.8	1010.9	590.2	420.7	781.6	666.7	465.9	890.1	514.3	363.4	677.8
Jilin	492.3	336.5	669.1	368.4	256.1	497.1	645.7	445.0	874.2	475.7	330.5	637.0	566.5	389.2	765.9	423.0	291.9	565.2
Liaoning	552.2	387.1	736.6	411.9	283.5	553.1	738.2	519.5	977.4	557.7	393.5	738.3	643.8	453.9	854.5	485.8	343.2	643.6
Ningxia	569.3	400.7	754.0	431.5	299.2	573.6	756.8	531.0	1018.8	584.9	411.0	768.3	658.5	464.9	880.5	507.9	355.1	667.4

Qinghai	570.8	400.6	758.2	434.7	303.6	578.8	756.8	527.7	1005.1	586.0	413.0	774.2	663.0	465.2	877.3	509.6	356.2	675.9
Shaanxi	498.2	339.3	672.3	346.8	238.5	467.0	661.1	457.4	900.7	479.4	334.4	643.6	577.2	398.0	775.7	412.8	287.0	549.7
Shandong	508.0	344.6	681.9	361.6	250.4	486.4	667.6	459.3	912.3	484.9	331.4	655.0	589.3	402.1	805.4	424.5	291.7	564.4
Shanghai	516.6	353.9	701.3	360.2	246.3	491.6	610.5	423.3	822.9	449.3	310.4	606.6	565.2	389.9	765.2	404.2	277.3	544.5
Shanxi	558.7	390.1	751.5	418.8	292.4	558.9	747.1	528.7	1006.2	569.9	402.0	760.8	650.2	459.9	865.3	493.4	349.8	655.3
Sichuan	577.6	405.3	767.0	447.3	317.5	594.2	770.3	547.0	1018.7	605.4	424.5	803.0	672.7	476.8	890.0	526.3	368.6	693.4
Tianjin	498.2	349.2	665.0	380.4	267.2	507.6	662.3	466.2	868.9	517.1	363.3	687.5	580.3	409.7	763.5	446.8	314.8	593.0
Tibet	581.6	407.5	771.1	452.9	316.4	599.0	772.8	544.7	1022.4	610.8	430.8	803.5	683.3	476.0	903.9	533.5	377.5	700.3
Xinjiang	563.3	394.8	747.5	425.3	298.8	566.1	750.4	530.7	997.5	576.1	405.6	763.5	649.3	453.8	862.1	498.3	351.7	657.9
Yunnan	521.8	359.7	709.6	369.4	253.6	503.7	660.2	453.4	895.2	490.6	341.3	650.8	591.5	404.7	801.7	430.4	296.5	577.3
Zhejiang	518.5	352.7	707.4	354.8	240.5	482.6	682.6	470.8	932.6	494.2	339.9	669.7	598.9	415.8	818.4	423.4	289.7	573.1
Hong Kong	483.9	339.0	643.7	408.1	287.2	546.0	730.6	518.9	962.0	657.0	465.6	863.5	606.8	428.0	801.5	540.7	385.1	716.9
Macao	466.5	327.0	625.6	355.3	249.7	474.8	623.7	438.1	819.8	482.3	338.6	641.0	547.6	384.3	723.1	422.0	295.4	562.6
China	547.7	383.4	730.2	405.8	283.8	539.2	727.8	514.8	962.3	557.9	393.1	732.3	637.5	449.9	848.8	481.9	338.6	637.0
Changes*					-25.9%						-23.3%							-24.4%

LUI and UII is the 2.5 to 97.5 centile values of the 95% uncertainty intervals.

*: Changes is the total mean values at 2016 compared to 1990.



Supplementary Figure S1: The steps taken in estimating YLDs of low back pain.