

Lampiran 1. Kuisisioner Penelitian

KUESIONER PENELITIAN

Kepada,
Yth. Saudara/i
di Tempat

Dengan hormat,

Sehubungan dengan penyusunan tesis sebagai salah satu syarat untuk menyelesaikan program studi Magister Manajemen di Fakultas Ekonomi dan Bisnis Universitas Muhammadiyah Jember, peneliti memohon kesediaan saudara/i untuk mengisi dan menjawab pertanyaan-pertanyaan yang tersedia dalam kuesioner dengan jujur dan sesuai dengan keadaan sebenarnya. Penelitian ini bertujuan untuk mengetahui “Pengaruh *Pengaruh Pemasaran Digital, Inovasi manajemen dan Customer Relationship Management (CRM)* terhadap Loyalitas Pelanggan dengan Customer Trust sebagai Variabel Mediasi pada Toko Pertanian Sumbertani di Sempolan”. Informasi yang saudara/i berikan hanya akan digunakan untuk kepentingan terbatas, dalam artian hanya digunakan dalam kepentingan penelitian ini saja. Peneliti menjamin kerahasiaan informasi dan jawaban yang anda berikan.

Demikian atas kesediaan dan kerjasama saudara/i yang berkenan untuk meluangkan waktu mengisi kuesioner ini, peneliti mengucapkan terimakasih.

Hormat saya,

Kennis Afriq Febriana Rozana
NIM 2420414060

LEMBAR KUESIONER

A. Identitas Responden

1. No. Responden : (diisi peneliti)

2. Nama :

3. Alamat :

4. Umur :

5. Jenis Kelamin : L/P

6. Status :

☐ Menikah

☐ Cerai

☐ Lajang

☐ Lainnya:.....

7. Etnis :

☐ Madura

☐ Bali

☐ Jawa

☐ Lainnya:.....

8. Apakah saudara/i pernah membeli produk pertanian di Toko Pertanian Sumbertani di Sempolan?

- ☐ Pernah (Lanjut ke pertanyaan berikutnya)
☐ Tidak Pernah (Berhenti Sampai Di Sini)

9. Apakah saudara/i pernah membeli produk pertanian di Toko Pertanian Sumbertani di Sempolan sebanyak?

- ☐ 1 kali ☐ 6 s.d 7 kali
☐ 2 s.d 3 kali ☐ Lebih dari 7 kali
☐ 4 s.d 5 kali

10. Terakhir membeli produk pertanian di Toko Pertanian Sumbertani di Sempolan pada tahun?

- ☐ 2025 ☐ 2023
☐ 2024 ☐ 2022

11. Pendidikan terakhir :

☐ SD/SMP/SMA

☐ Sarjana

☐ Diploma

☐ Pasca Sarjana

12. Profesi Responden

:

☐ Pelajar/ Mahasiswa

☐ Wiraswata

☐ Konsumen

☐ Ibu Rumah Tangga

☐ TNI/POLRI

☐ Lain-Lain.....(Sebutkan)

☐ PNS

B. Petunjuk Kuesioner

1. Pertanyaan-pertanyaan berikut ini mohon diisi dengan jujur dan sesuai dengan keadaan dan kenyataan yang sebenarnya.
2. Berilah tanda *check list* (✓) pada salah satu jawaban yang telah disediakan, sesuai dengan apa yang anda alami atau rasakan saat ini.
3. Setiap jawaban pada masing-masing pertanyaan akan diberikan skor sebagai berikut:
SS = Sangat Setuju (skor 5)
S = Setuju (skor 4)
CS = Cukup Setuju (skor 3)
TS = Tidak Setuju (skor 2)
STS = Sangat Tidak Setuju (skor 1)

C. Daftar Pernyataan

1. Pemasaran Digital

No	Pernyataan	SS	S	CS	TS	STS
1	Produk pertanian di Toko Pertanian Sumbertani di Sempolan Asli, terpercaya dan berkualitas tinggi					
2	Saya sering melihat informasi tentang Toko Pertanian Sumbertani di WA					
3	Saya merasa informasi digital yang diberikan Toko Sumbertani membantu saya memahami nilai produk yang ditawarkan					
4	Foto dan video produk yang ditampilkan di platform digital Sumbertani membantu saya memastikan kualitas produk					

2. Inovasi Manajemen

No	Pernyataan	SS	S	CS	TS	STS
1	Saya merasa terbantu dengan layanan konsultasi pertanian yang diberikan melalui media digital seperti <i>WhatsApp</i>					
2	Saya merasa puas karena informasi produk dan riwayat pembelian saya tersimpan dengan baik dalam sistem digital Toko Sumbertani					
3	Upaya pemasaran melalui berbagai platform digital membuat Toko Sumbertani semakin dikenal oleh Masyarakat					

3. Customer Relationship Management

No	Pernyataan	SS	S	CS	TS	STS
1	Saya merasa Toko Pertanian Sumbertani secara aktif menjaga hubungan dengan pelanggan melalui layanan yang ramah dan pengingat pembelian					
2	Saya merasa dihargai sebagai pelanggan lama karena pelayanan ramah, pengingat pembelian ulang, dan perhatian dari Toko Pertanian Sumbertani					
3	Menurut saya, Toko Pertanian Sumbertani aktif berkomunikasi dengan pelanggan secara langsung maupun melalui media online.					
4	Menurut saya, layanan yang diberikan Toko Pertanian Sumbertani disesuaikan dengan kebutuhan usaha pertanian saya					

4. Kepercayaan Pelanggan (*Customer trust*)

No	Pernyataan	SS	S	CS	TS	STS
1	Menurut saya, Toko Pertanian Sumbertani bersikap jujur dalam menjelaskan kualitas dan harga produknya					
2	Menurut saya, Toko Pertanian Sumbertani kompeten dalam memilih dan menjual produk pertanian yang bermutu					
3	Menurut saya, Toko Pertanian Sumbertani peduli terhadap keberhasilan usaha pertanian pelanggan dengan menyediakan produk yang benar-benar bermanfaat					

5. Loyalitas Pelanggan

No	Pernyataan	SS	S	CS	TS	STS
1	Pelanggan memberikan testimoni yang baik setelah menggunakan produk pertanian dari toko pertanian Sumbertani di Sempolan					
2	Pelanggan merekomendasikan produk pertanian dari toko pertanian Sumbertani di Sempolan					
3	Pelanggan melakukan pembelian kembali pada produk pertanian dari toko pertanian Sumbertani di Sempolan					

Lampiran 2
Rekapitulasi Data Jawaban Responden

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227	4	4	4	5	4	4	4	4	4	4	3	4
228	4	3	4	4	4	5	3	3	4	3	4	4
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243	4	4	5	4	4	5	4	5	4	5	5	4

No	Z1	Z2	Z3	Y1	Y2	Y3
1	5	5	5	5	5	5
2	4	4	4	4	4	4
3	4	4	4	4	4	4
4	3	3	3	3	3	3
5	5	5	4	5	5	5
6	3	3	3	3	3	3
7	4	4	4	4	5	5
8	4	4	3	3	3	3

9	4	4	5	5	5	4
10	3	3	3	4	1	3
11	4	4	4	4	5	4
12	3	3	3	3	3	3
13	2	1	1	1	2	1
14	4	5	3	3	5	3
15	2	2	2	2	3	2
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241	4	5	4	3	4	5
242	3	3	4	4	4	3
243	4	4	4	5	5	4

Lampiran 3

Hasil Analisis SEM-PLS

* General SEM analysis results *

General project information

Version of WarpPLS used: 7.0
License holder: Trial license (3 months)
Type of license: Trial license (3 months)
License start date: 12-Jan-2025
License end date: 10-Apr-2025
Project path (directory): C:\My Document\TESIS RPL3\
Project file: DATA ANALISIS TESI.prj
Last changed: 18-Feb-2025 18:25:32
Last saved: 18-Feb-2025 18:29:57
Raw data path (directory): C:\My Document\ARTIKEL RPL3\
Raw data file: TESIS INPUT DATA WARPPLS.csv

Model fit and quality indices

Average path coefficient (APC)=0.267, $P < 0.001$
Average R-squared (ARS)=0.669, $P < 0.001$
Average adjusted R-squared (AARS)=0.662, $P < 0.001$
Average block VIF (AVIF)=2.385, acceptable if ≤ 5 , ideally ≤ 3.3
Average full collinearity VIF (AFVIF)=2.908, acceptable if ≤ 5 , ideally ≤ 3.3
Tenenhaus GoF (GoF)=0.685, small ≥ 0.1 , medium ≥ 0.25 , large ≥ 0.36
Simpson's paradox ratio (SPR)=1.000, acceptable if ≥ 0.7 , ideally = 1
R-squared contribution ratio (RSCR)=1.000, acceptable if ≥ 0.9 , ideally = 1
Statistical suppression ratio (SSR)=1.000, acceptable if ≥ 0.7
Nonlinear bivariate causality direction ratio (NLBCDR)=1.000, acceptable if ≥ 0.7

General model elements

Missing data imputation algorithm: Arithmetic Mean Imputation
Outer model analysis algorithm: PLS Regression
Default inner model analysis algorithm: Warp3
Multiple inner model analysis algorithms used? No
Resampling method used in the analysis: Stable3
Number of data resamples used: 100
Number of cases (rows) in model data: 180
Number of latent variables in model: 5
Number of indicators used in model: 18
Number of iterations to obtain estimates: 6
Range restriction variable type: None
Range restriction variable: None
Range restriction variable min value: 0.000
Range restriction variable max value: 0.000
Only ranked data used in analysis? No

* Path coefficients and P values *

Path coefficients

X1	X2	X3	Z	Y
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Z	0.331	0.203	0.349	
Y	0.022	0.272	0.335	0.354

P values

	X1	X2	X3	Z	Y
Z	<0.001	0.003	<0.001		
Y	0.383	<0.001	<0.001	<0.001	

* Standard errors for path coefficients *

	X1	X2	X3	Z	Y
Z	0.070	0.072	0.069		
Y	0.074	0.071	0.070	0.069	

* Effect sizes for path coefficients *

	X1	X2	X3	Z	Y
Z	0.233	0.128	0.237		
Y	0.015	0.192	0.254	0.278	

* Combined loadings and cross-loadings *

	X1	X2	X3	Z	Y	Type (a	SE	P value
X1.1	0.814	-0.226	-0.130	0.001	0.249	Reflect	0.063	<0.001
X1.2	0.801	-0.101	0.082	-0.148	-0.110	Reflect	0.063	<0.001
X1.3	0.801	0.244	-0.196	0.131	0.060	Reflect	0.063	<0.001
X1.4	0.756	0.091	0.260	0.017	-0.215	Reflect	0.064	<0.001
X2.1	0.381	0.849	0.036	0.011	-0.123	Reflect	0.063	<0.001
X2.2	-0.208	0.898	0.035	-0.127	0.045	Reflect	0.062	<0.001
X2.3	-0.165	0.831	-0.075	0.126	0.077	Reflect	0.063	<0.001
X3.1	0.037	-0.018	0.903	0.012	-0.237	Reflect	0.062	<0.001
X3.2	0.101	-0.039	0.900	-0.062	-0.137	Reflect	0.062	<0.001
X3.3	0.104	-0.036	0.852	0.047	-0.119	Reflect	0.063	<0.001
X3.4	-0.149	0.067	0.794	-0.248	0.608	Reflect	0.063	<0.001
X3.5	-0.118	0.036	0.803	0.252	-0.054	Reflect	0.063	<0.001
Z1	0.240	0.005	0.017	0.848	-0.053	Reflect	0.063	<0.001
Z2	-0.106	-0.015	0.062	0.870	-0.263	Reflect	0.062	<0.001
Z3	-0.142	0.012	-0.087	0.782	0.350	Reflect	0.064	<0.001
Y1	-0.007	-0.072	-0.174	0.030	0.826	Reflect	0.063	<0.001
Y2	0.044	0.050	0.150	-0.048	0.827	Reflect	0.063	<0.001

Y3	-0.034	0.020	0.022	0.016	0.883	Reflect	0.062	<0.001
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Notes: Loadings are unrotated and cross-loadings are oblique-rotated. SEs and P values are for loadings. P values < 0.05 are desirable for reflective indicators.

* Normalized combined loadings and cross-loadings *

	X1	X2	X3	Z	Y
X1.1	0.599	-0.237	-0.136	0.001	0.260
X1.2	0.625	-0.095	0.077	-0.139	-0.104
X1.3	0.578	0.363	-0.291	0.195	0.088
X1.4	0.574	0.122	0.347	0.023	-0.286
X2.1	0.520	0.568	0.050	0.015	-0.168
X2.2	-0.185	0.651	0.031	-0.113	0.040
X2.3	-0.185	0.610	-0.084	0.142	0.086
X3.1	0.033	-0.017	0.660	0.011	-0.216
X3.2	0.098	-0.038	0.645	-0.060	-0.134
X3.3	0.117	-0.041	0.619	0.053	-0.135
X3.4	-0.172	0.078	0.576	-0.286	0.702
X3.5	-0.151	0.046	0.594	0.323	-0.070
Z1	0.328	0.006	0.023	0.560	-0.073
Z2	-0.090	-0.013	0.053	0.621	-0.222
Z3	-0.189	0.015	-0.116	0.573	0.465
Y1	-0.007	-0.070	-0.169	0.030	0.577
Y2	0.064	0.073	0.218	-0.069	0.555
Y3	-0.040	0.024	0.025	0.019	0.565

Note: Loadings are unrotated and cross-loadings are oblique-rotated, both after separate Kaiser normalizations.

* Pattern loadings and cross-loadings *

	X1	X2	X3	Z	Y
X1.1	0.885	-0.226	-0.130	0.001	0.249
X1.2	1.039	-0.101	0.082	-0.148	-0.110
X1.3	0.578	0.244	-0.196	0.131	0.060
X1.4	0.663	0.091	0.260	0.017	-0.215
X2.1	0.381	0.613	0.036	0.011	-0.123
X2.2	-0.208	1.097	0.035	-0.127	0.045
X2.3	-0.165	0.857	-0.075	0.126	0.077
X3.1	0.037	-0.018	1.069	0.012	-0.237
X3.2	0.101	-0.039	1.012	-0.062	-0.137
X3.3	0.104	-0.036	0.868	0.047	-0.119
X3.4	-0.149	0.067	0.541	-0.248	0.608
X3.5	-0.118	0.036	0.725	0.252	-0.054
Z1	0.240	0.005	0.017	0.689	-0.053
Z2	-0.106	-0.015	0.062	1.146	-0.263
Z3	-0.142	0.012	-0.087	0.646	0.350
Y1	-0.007	-0.072	-0.174	0.030	1.008
Y2	0.044	0.050	0.150	-0.048	0.668

Y3	-0.034	0.020	0.022	0.016	0.861
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Note: Loadings and cross-loadings are oblique-rotated.

* Normalized pattern loadings and cross-loadings *

	X1	X2	X3	Z	Y
X1.1	0.926	-0.237	-0.136	0.001	0.260
X1.2	0.977	-0.095	0.077	-0.139	-0.104
X1.3	0.859	0.363	-0.291	0.195	0.088
X1.4	0.884	0.122	0.347	0.023	-0.286
X2.1	0.520	0.836	0.050	0.015	-0.168
X2.2	-0.185	0.975	0.031	-0.113	0.040
X2.3	-0.185	0.965	-0.084	0.142	0.086
X3.1	0.033	-0.017	0.976	0.011	-0.216
X3.2	0.098	-0.038	0.984	-0.060	-0.134
X3.3	0.117	-0.041	0.982	0.053	-0.135
X3.4	-0.172	0.078	0.625	-0.286	0.702
X3.5	-0.151	0.046	0.931	0.323	-0.070
Z1	0.328	0.006	0.023	0.942	-0.073
Z2	-0.090	-0.013	0.053	0.969	-0.222
Z3	-0.189	0.015	-0.116	0.857	0.465
Y1	-0.007	-0.070	-0.169	0.030	0.983
Y2	0.064	0.073	0.218	-0.069	0.969
Y3	-0.040	0.024	0.025	0.019	0.998

Note: Loadings and cross-loadings shown are after oblique rotation and Kaiser normalization.

* Structure loadings and cross-loadings *

	X1	X2	X3	Z	Y
X1.1	0.814	0.547	0.458	0.581	0.583
X1.2	0.801	0.543	0.446	0.504	0.501
X1.3	0.801	0.653	0.414	0.592	0.573
X1.4	0.756	0.553	0.520	0.548	0.533
X2.1	0.731	0.849	0.489	0.597	0.621
X2.2	0.565	0.898	0.438	0.488	0.592
X2.3	0.574	0.831	0.423	0.547	0.596
X3.1	0.484	0.413	0.903	0.544	0.597
X3.2	0.512	0.433	0.900	0.548	0.622
X3.3	0.524	0.438	0.852	0.566	0.618
X3.4	0.472	0.500	0.794	0.538	0.710
X3.5	0.470	0.454	0.803	0.595	0.637
Z1	0.669	0.587	0.562	0.848	0.680
Z2	0.550	0.484	0.547	0.870	0.610
Z3	0.534	0.509	0.526	0.782	0.654
Y1	0.564	0.560	0.570	0.643	0.826
Y2	0.587	0.595	0.658	0.636	0.827
Y3	0.601	0.622	0.661	0.689	0.883

Note: Loadings and cross-loadings are unrotated.

* Normalized structure loadings and cross-loadings *

	X1	X2	X3	Z	Y
X1.1	0.599	0.402	0.337	0.427	0.429
X1.2	0.625	0.424	0.348	0.394	0.391
X1.3	0.578	0.471	0.299	0.427	0.414
X1.4	0.574	0.420	0.395	0.416	0.405
X2.1	0.489	0.568	0.327	0.399	0.415
X2.2	0.409	0.651	0.317	0.353	0.429
X2.3	0.422	0.610	0.311	0.402	0.438
X3.1	0.354	0.302	0.660	0.398	0.436
X3.2	0.367	0.310	0.645	0.392	0.446
X3.3	0.381	0.318	0.619	0.411	0.449
X3.4	0.343	0.363	0.576	0.391	0.516
X3.5	0.348	0.335	0.594	0.439	0.470
Z1	0.442	0.388	0.372	0.560	0.450
Z2	0.392	0.345	0.390	0.621	0.435
Z3	0.392	0.373	0.386	0.573	0.479
Y1	0.394	0.391	0.398	0.449	0.577
Y2	0.394	0.399	0.441	0.427	0.555
Y3	0.385	0.398	0.423	0.441	0.565

Note: Loadings and cross-loadings shown are unrotated and after Kaiser normalization.

* Indicator weights *

	X1	X2	X3	Z	Y	Type (a	SE	P value	VIF	WLS	ES
X1.1	0.324	0.000	0.000	0.000	0.000	Reflect	0.070	<0.001	1.797	1	0.263
X1.2	0.318	0.000	0.000	0.000	0.000	Reflect	0.070	<0.001	1.719	1	0.255
X1.3	0.318	0.000	0.000	0.000	0.000	Reflect	0.070	<0.001	1.681	1	0.255
X1.4	0.300	0.000	0.000	0.000	0.000	Reflect	0.070	<0.001	1.521	1	0.227
X2.1	0.000	0.383	0.000	0.000	0.000	Reflect	0.069	<0.001	1.858	1	0.325
X2.2	0.000	0.405	0.000	0.000	0.000	Reflect	0.069	<0.001	2.259	1	0.364
X2.3	0.000	0.375	0.000	0.000	0.000	Reflect	0.069	<0.001	1.720	1	0.311
X3.1	0.000	0.000	0.249	0.000	0.000	Reflect	0.071	<0.001	4.064	1	0.225
X3.2	0.000	0.000	0.248	0.000	0.000	Reflect	0.071	<0.001	4.026	1	0.223
X3.3	0.000	0.000	0.235	0.000	0.000	Reflect	0.071	<0.001	2.421	1	0.200
X3.4	0.000	0.000	0.219	0.000	0.000	Reflect	0.071	0.001	1.929	1	0.174
X3.5	0.000	0.000	0.221	0.000	0.000	Reflect	0.071	0.001	2.043	1	0.178
Z1	0.000	0.000	0.000	0.406	0.000	Reflect	0.069	<0.001	1.760	1	0.344
Z2	0.000	0.000	0.000	0.417	0.000	Reflect	0.068	<0.001	1.875	1	0.362
Z3	0.000	0.000	0.000	0.375	0.000	Reflect	0.069	<0.001	1.432	1	0.293

Y1	0.000	0.000	0.000	0.000	0.385	Reflect	0.069	<0.001	1.657	1	0.318
Y2	0.000	0.000	0.000	0.000	0.385	Reflect	0.069	<0.001	1.661	1	0.318
Y3	0.000	0.000	0.000	0.000	0.412	Reflect	0.069	<0.001	2.015	1	0.364

Notes: P values < 0.05 and VIFs < 2.5 are desirable for formative indicators; VIF = indicator variance inflation factor;

WLS = indicator weight-loading sign (-1 = Simpson's paradox in l.v.); ES = indicator effect size.

* Latent variable coefficients *

R-squared coefficients

X1	X2	X3	Z	Y
			0.598	0.739

Adjusted R-squared coefficients

X1	X2	X3	Z	Y
			0.592	0.733

Composite reliability coefficients

X1	X2	X3	Z	Y
0.872	0.895	0.929	0.872	0.883

Cronbach's alpha coefficients

X1	X2	X3	Z	Y
0.803	0.823	0.904	0.780	0.801

Average variances extracted

X1	X2	X3	Z	Y
0.629	0.739	0.725	0.695	0.716

Full collinearity VIFs

X1	X2	X3	Z	Y
2.730	2.521	2.345	2.958	3.984

Q-squared coefficients

X1	X2	X3	Z	Y
			0.597	0.743

Minimum and maximum values

X1	X2	X3	Z	Y
-4.729	-3.839	-3.921	-4.019	-3.684
1.434	1.582	1.492	1.620	1.460

Medians (top) and modes (bottom)

X1	X2	X3	Z	Y
0.259	0.227	0.139	0.072	0.057
0.649	0.227	0.139	0.072	0.057

Skewness (top) and exc. kurtosis (bottom) coefficients

X1	X2	X3	Z	Y
-1.314	-1.018	-0.933	-0.766	-0.931
3.286	2.200	1.587	1.426	1.542

Tests of unimodality: Rohatgi-Székely (top) and Klaassen-Mokveld-van Es (bottom)

X1	X2	X3	Z	Y
Yes	Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes	Yes

Tests of normality: Jarque-Bera (top) and robust Jarque-Bera (bottom)

X1	X2	X3	Z	Y
No	No	No	No	No
No	No	No	No	No

* Correlations among latent variables and errors *

Correlations among l.vs. with sq. rts. of AVEs

	X1	X2	X3	Z	Y
X1	0.793	0.724	0.578	0.701	0.691
X2	0.724	0.860	0.523	0.631	0.701
X3	0.578	0.523	0.852	0.654	0.745
Z	0.701	0.631	0.654	0.834	0.776
Y	0.691	0.701	0.745	0.776	0.846

Note: Square roots of average variances extracted (AVEs) shown on diagonal.

P values for correlations

	X1	X2	X3	Z	Y
X1	1.000	<0.001	<0.001	<0.001	<0.001
X2	<0.001	1.000	<0.001	<0.001	<0.001
X3	<0.001	<0.001	1.000	<0.001	<0.001
Z	<0.001	<0.001	<0.001	1.000	<0.001
Y	<0.001	<0.001	<0.001	<0.001	1.000

Correlations among l.v. error terms with VIFs

	(e)Z	(e)Y
(e)Z	1.003	0.051
(e)Y	0.051	1.003

Notes: Variance inflation factors (VIFs) shown on diagonal. Error terms included (a.k.a. residuals) are for endogenous l.vs.

P values for correlations

	(e)Z	(e)Y
(e)Z	1.000	0.499
(e)Y	0.499	1.000

 * Block variance inflation factors *

	X1	X2	X3	Z	Y
Z	2.546	2.090	1.799		
Y	2.924	2.305	2.202	2.832	

Note: These VIFs are for the latent variables on each column (predictors), with reference to the latent variables on each row (criteria).

 * Indirect and total effects *

Indirect effects for paths with 2 segments

	X1	X2	X3	Z	Y
Y	0.117	0.072	0.124		

Number of paths with 2 segments

	X1	X2	X3	Z	Y
Y	1	1	1		

P values of indirect effects for paths with 2 segments

	X1	X2	X3	Z	Y
Y	0.012	0.085	0.009		

Standard errors of indirect effects for paths with 2 segments

	X1	X2	X3	Z	Y
Y	0.051	0.052	0.051		

Effect sizes of indirect effects for paths with 2 segments

	X1	X2	X3	Z	Y
Y	0.081	0.051	0.094		

Sums of indirect effects

	X1	X2	X3	Z	Y
Y	0.117	0.072	0.124		

Number of paths for indirect effects

	X1	X2	X3	Z	Y
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Y	1	1	1		
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P values for sums of indirect effects

	X1	X2	X3	Z	Y
Y	0.012	0.085	0.009		

Standard errors for sums of indirect effects

	X1	X2	X3	Z	Y
Y	0.051	0.052	0.051		

Effect sizes for sums of indirect effects

	X1	X2	X3	Z	Y
Y	0.081	0.051	0.094		

Total effects

	X1	X2	X3	Z	Y
Z	0.331	0.203	0.349		
Y	0.139	0.343	0.459	0.354	

Number of paths for total effects

	X1	X2	X3	Z	Y
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Z	1	1	1	
Y	2	2	2	1

P values for total effects

	X1	X2	X3	Z	Y
Z	<0.001	0.003	<0.001		
Y	0.028	<0.001	<0.001	<0.001	

Standard errors for total effects

	X1	X2	X3	Z	Y
Z	0.070	0.072	0.069		
Y	0.072	0.070	0.068	0.069	

Effect sizes for total effects

	X1	X2	X3	Z	Y
Z	0.233	0.128	0.237		
Y	0.096	0.243	0.347	0.278	

 * Causality assessment coefficients *

Path-correlation signs

	X1	X2	X3	Z	Y
Z	1	1	1		
Y	1	1	1	1	

Notes: path-correlation signs; negative sign (i.e., -1) = Simpson's paradox.

R-squared contributions

	X1	X2	X3	Z	Y
Z	0.233	0.128	0.237		
Y	0.015	0.192	0.254	0.278	

Notes: R-squared contributions of predictor lat. vars.; columns = predictor lat. vars.; rows = criteria lat. vars.; negative sign = reduction in R-squared.

Path-correlation ratios

	X1	X2	X3	Z	Y
Z	0.470	0.321	0.515		
Y	0.032	0.384	0.442	0.451	

Notes: absolute path-correlation ratios; ratio > 1 indicates statistical suppression; 1 < ratio ≤ 1.3: weak suppression; 1.3 < ratio ≤ 1.7: medium; 1.7 < ratio: strong.

Path-correlation differences

	X1	X2	X3	Z	Y
Z	0.374	0.429	0.329		
Y	0.670	0.435	0.423	0.431	

Note: absolute path-correlation differences.

P values for path-correlation differences

	X1	X2	X3	Z	Y
Z	<0.001	<0.001	<0.001		
Y	<0.001	<0.001	<0.001	<0.001	

Note: P values for absolute path-correlation differences.

Warp2 bivariate causal direction ratios

	X1	X2	X3	Z	Y
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Z	1.033	1.016	1.016	
Y	1.036	1.016	0.993	0.991

Notes: Warp2 bivariate causal direction ratios; ratio > 1 supports reversed link; $1 < \text{ratio} \leq 1.3$: weak support; $1.3 < \text{ratio} \leq 1.7$: medium; $1.7 < \text{ratio}$: strong.

Warp2 bivariate causal direction differences

	X1	X2	X3	Z	Y
Z	0.023	0.010	0.011		
Y	0.025	0.011	0.005	0.007	

Note: absolute Warp2 bivariate causal direction differences.

P values for Warp2 bivariate causal direction differences

	X1	X2	X3	Z	Y
Z	0.377	0.446	0.442		
Y	0.368	0.440	0.474	0.464	

Note: P values for absolute Warp2 bivariate causal direction differences.

Warp3 bivariate causal direction ratios

	X1	X2	X3	Z	Y
Z	1.032	1.016	1.010		
Y	1.038	1.018	0.993	0.991	

Notes: Warp3 bivariate causal direction ratios; ratio > 1 supports reversed link; $1 < \text{ratio} \leq 1.3$: weak support; $1.3 < \text{ratio} \leq 1.7$: medium; $1.7 < \text{ratio}$: strong.

Warp3 bivariate causal direction differences

	X1	X2	X3	Z	Y
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Z	0.023	0.010	0.007	
Y	0.026	0.013	0.005	0.007

Note: absolute Warp3 bivariate causal direction differences.

P values for Warp3 bivariate causal direction differences

	X1	X2	X3	Z	Y
Z	0.379	0.446	0.463		
Y	0.362	0.430	0.471	0.464	

Note: P values for absolute Warp3 bivariate causal direction differences.

