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Application of meta-analysis technique to assess effectiveness of HACCP-based FSM systems in Chinese SLDBs

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## ACCEPTED MANUSCRIPT

1 2	Application of meta-analysis technique to assess effectiveness of HACCP-based FSM systems in Chinese SLDBs
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8	Abstract:
9	Despite effectiveness of HACCP-based FSM systems in food safety management
10	(FSM) and their common adoption in industrialized food businesses, doubts have
11	been raised on their feasibility in small and/or less developed food businesses (SLDBs)
12	because of barriers such as financial constraints, lack of technical expertise, and
13	insufficient personnel training faced by SLDBs. Uncertainty about their effectiveness,
14	as well as feasibility for SLDBs (including numerous Chinese SLDBs) made them
15	reluctant to adopt these FSM systems. In order to have clear understanding on the
16	effectiveness of HACCP-based FSM systems for SLDBs, this study presented
17	meta-analyses on associations between implementing HACCP-based FSM systems in
18	Chinese SLDBs and levels of their food safety status. Having HACCP-based FSM
19	systems implemented led to significantly higher odds of qualified numbers, with
20	pooled ORs (95% CI) being 10.58 (6.06, 18.49), 8.66 (4.88, 15.35), 6.39 (3.36, 12.18),
21	and 6.65 (4.29, 10.30), respectively, with regard to food products, food handlers'
22	hygiene, employees' knowledge about food safety and hygiene, and food contacting
23	surfaces & operating environments. Solid evidence on effectiveness of HACCP-based
24	FSM systems in SLDBs should encourage food businesses to adopt these systems for
25	ensuring food safety.
26	Keywords: Food safety; HACCP; Effectiveness
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