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Subjective Outcome Evaluation of a Positive Youth Development Program in Hong Kong: Profiles and Correlates

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Secondary school students (n = 33,867 from 213 secondary schools) responded to a subjective outcome evaluation form to assess their views of the program, workers (teachers and/or social workers), and perceived effectiveness of the program. Results showed that high proportions of the respondents had positive perceptions of the program and the instructors, and more than four-fifths of the respondents regarded the program as helpful to them. While schools admitting students with different academic abilities and hours did not differ in the subjective outcome evaluation ratings, subjective evaluation ratings for workers were highest, followed by ratings for the program and perceived effectiveness. The present study replicates the previously reported findings and provides additional support for the effectiveness of the Tier 1 Program of the Project P.A.T.H.S. (Positive Adolescent Training through Holistic Social Programmes) in Hong Kong.

KEYWORDS: positive youth development program, Hong Kong, subjective outcome evaluation

INTRODUCTION

With the intensification of adolescent problems in the context of Hong Kong, there is a demand for positive youth development programs for adolescents[1,2,3]. To promote holistic development among adolescents in Hong Kong, The Hong Kong Jockey Club Charities Trust initiated a project entitled "P.A.T.H.S. to Adulthood: A Jockey Club Youth Enhancement Scheme". The word "P.A.T.H.S." denotes Positive Adolescent Training through Holistic Social Programmes. A research team with researchers from five universities in Hong Kong was formed with The Hong Kong Polytechnic University as the lead institution and the second author as the Principal Investigator, in order to develop a multiyear, universal, positive youth development program to promote holistic adolescent development in Hong Kong[4,5]. There are two tiers of programs in the Project P.A.T.H.S.: Tier 1 and Tier 2. The Tier 1 Program is a universal, positive youth development program where students in Secondary 1–3 participate in 10–20 h of

training in the school year at each grade, involving 20–40 teaching units. In the Tier 1 Program, 15 positive youth development constructs are included in the 40 teaching units[6].

Subjective outcome evaluation is one of the evaluation mechanisms of the Project P.A.T.H.S. As the Project P.A.T.H.S. was financially supported by The Hong Kong Jockey Club Charities Trust, each participating school was required to submit an evaluation report to the funding body with the consolidated subjective outcome evaluation profile of the school. In other words, as the workers were expected to conduct program evaluation as part of their professional practice, we could make use of such reports to "reconstruct" the overall profile of the subjective outcome evaluation data based on the perspectives of the program participants and program implementers. Several studies have shown that the program participants perceived the program and program implementers positively, and they also identified the benefits of the programs to their psychosocial development[7,8,9,10,11]. Similarly, subjective outcome evaluation based on the perspective of the program and themselves as the implementers, and they also felt that the program could promote the psychosocial development of the program participants[12,13,14,15]. In short, the subjective outcome evaluation findings based on several studies demonstrate the perceived effectiveness of the program from the perspectives of the participants and program implementers.

This paper intends to present the results of the subjective outcome evaluation of the Tier 1 Program by examining different domains of the subjective outcome evaluation (e.g., perceptions of the program, program implementers [teachers and/or social workers], perceived program effectiveness, and overall satisfaction) based on the views of the program participants. It also examines the possible differences among these subjective outcome evaluation domains. Moreover, it is of interest to examine the differences in these subjective outcome evaluation domains between schools adopting the 10-h core program mode and schools adopting the 20-h full program mode. Furthermore, as students in Hong Kong are categorized in accordance with their academic achievement (band 1: students with high academic achievement; band 2: students with medium academic achievement; band 3: students with low academic achievement), this study also investigates whether these students have different views of the positive youth development program, program workers, and program effectiveness.

METHODS

Participants and Procedures

There were 213 schools that joined the Secondary 1 Program of the Project P.A.T.H.S. in the second year of the Full Implementation Phase in the 2007/08 school year. The mean number of students per school was 171.05 (range: 16–267), with an average of 4.69 classes per school (range: 1–8). Among them, 105 schools adopted the full program (i.e., 20-h program involving 40 units), while 108 schools adopted the core program (i.e., 10-h program involving 20 units). The mean number of sessions used to implement the program was 23.61 (range: 5–60). While 116 (54.46%) schools incorporated the program into the formal curriculum (e.g., Liberal Studies, Life Education), 97 schools (45.54%) used other modes (e.g., form teachers' periods) to implement the program. The mean numbers of social workers and teachers implementing the program per school were 2 (range: 0–8) and 5.63 (range: 0–28), respectively.

After the Tier 1 Program was completed, the participants were invited to respond to a subjective outcome evaluation questionnaire. A total of 33,867 students (mean = 159 students per school, range: 14–267) responded to the Subjective Outcome Evaluation Form (Form A) developed by the research team[16]. The data collection was normally carried out at the last session of the program. On the day when the evaluation data were collected, the purpose of the evaluation was mentioned and confidentiality of the data collected was repeatedly emphasized to all of the students. The students were asked to indicate if they did not want to respond to the evaluation questionnaire (i.e., "passive" informed consent was obtained from the students). All participants responded to all scales in the evaluation form in a self-administration format. Adequate time was provided for the participants to complete the questionnaire. To

facilitate the program evaluation, the research team developed an evaluation manual with standardized instructions for collecting the subjective outcome evaluation data[16]. In addition, adequate training was provided to the workers during the 20-h training workshops on how to collect and analyze the data collected by Form A.

Instruments

The Subjective Outcome Evaluation Form (Form A) was designed by Shek and Siu[16]. Broadly speaking, there are several parts in the evaluation form as follows:

- Participants' perceptions of the program, such as program objectives, design, classroom atmosphere, interaction among the students, and the respondents' participation during class (10 items)
- Participants' perceptions of the workers (teachers and/or social workers), such as the preparation of the instructor, professional attitude, involvement, and interaction with the students (10 items)
- Participants' perceptions of the effectiveness of the program, such as promotion of different psychosocial competencies, resilience, and overall personal development (16 items)
- The extent to which the participants would recommend the program to other people with similar needs (one item)
- The extent to which the participants would join similar programs in future (one item)
- Overall satisfaction with the program (one item)
- Things that the participants learned from the program (open-ended question)
- Things that the participants appreciated most (open-ended question)
- Opinion about the instructor(s) (open-ended question)
- Areas that require improvement (open-ended question)

After receiving the consolidated data by the funding body, the data were aggregated to "reconstruct" the overall profile based on the subjective outcome evaluation data by the research team. Besides looking at the percentage scores, several composite scores were also computed. First, the views of the program participants, program implementers, and program effectiveness, in terms of percentages, were computed. Second, three overall ratings (means and standard deviations) were computed: (1) VP: the average of the 10 items regarding the views of the program, (2) WK: the average of the 10 items regarding the views of the program, and social workers) implementing the program, and (3) EF: the average of the 16 items regarding the views of the perceived effectiveness of the program.

RESULTS

Reliability analysis with the schools as the unit of analyses showed that Form A was internally consistent: 10 items related to the program (alpha = 0.98, mean interitem correlation = 0.85), 10 items related to the instructor (alpha = 0.99, mean interitem correlation = 0.94), 16 items related to the benefits (alpha = 0.99, mean interitem correlation = 0.93), and 39 items based on the entire Form A (alpha = 0.99, mean interitem correlation = 0.80).

The quantitative findings based on the closed-ended questions are presented in this paper. There are several observations that can be highlighted from the findings. First, more than two-thirds of the respondents perceived the program in a positive manner (Table 1). For example, 84.97% of the students indicated that the program objectives were very clear; 82.78% felt that the activities were carefully planned. Second, a high proportion of the students had a positive evaluation of the instructors (Table 2). For example, 89.74% of the respondents indicated that the instructors were very involved; 89.13% of the

	1		1 2		:	3		4 5			6		Participants	
	Stro Disa	ngly gree	Disa	gree	Slig Disa	ihtly Igree	Slig Ag	htly ree	Agr	ee	Strongly Agree		Responses (Options 4–6)	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
The objectives of the curriculum were very clear. (n = 33,567)	1,033	3.08	961	2.86	3,052	9.09	10,474	31.20	13,530	40.31	4,517	13.46	28,521	84.97
The design of the curriculum was very good. (n = 33,553)	946	2.82	1,310	3.90	4,007	11.94	11,984	35.72	11,659	34.75	3,647	10.87	27,290	81.33
The activities were carefully planned. (n = 33,492)	891	2.66	1,133	3.38	3,742	11.17	11,461	34.22	12,294	36.71	3,971	11.86	27,726	82.78
The classroom atmosphere was very pleasant. (n = 33,437)	1,230	3.68	1,421	4.25	3,953	11.82	9,462	28.30	11,135	33.30	6,236	18.65	26,833	80.25
There was much peer interaction among the students. (n = 33,278)	1,068	3.21	1,270	3.82	3,535	10.62	9,710	29.18	11,447	34.40	6,248	18.78	27,405	82.35
I participated actively during lessons (including discussions, sharing, games, etc.). (n = 33,496)	1,130	3.37	1,391	4.15	3,597	10.74	10,417	31.10	11,379	33.97	5,582	16.66	27,378	81.74
I was encouraged to do my best. (n = 33,476)	1,337	3.99	1,728	5.16	4,519	13.50	11,708	34.97	10,285	30.72	3,899	11.65	25,892	77.34
The learning experience I encountered enhanced my interest towards the lessons. (n = 33,368)	1,303	3.90	1,706	5.11	4,286	12.84	11,287	33.83	10,734	32.17	4,052	12.14	26,073	78.14
Overall, I have a very positive evaluation of the program. (n = 33,431)	1,378	4.12	1,753	5.24	4,540	13.58	10,974	32.83	10,604	31.72	4,182	12.51	25,760	77.05
On the whole, I like this curriculum very much. (n = 33,337)	1,609	4.83	1,757	5.27	3,844	11.53	10,133	30.40	10,531	31.59	5,463	16.39	26,127	78.37

 TABLE 1

 Summary of the Views of the Program Participants of the Program

TABLE 2 Summary of the Views of the Program Participants of the Program Implementers

		1	:	2	3	3	4	4	5		6 Strongly Agree		Participants with Positive Responses (Options 4–6)	
	Stro Disa	ongly agree	Disa	gree	Slig Disa	htly gree	Slig Agr	htly ree	Agr	ee				
	n	%	n	%	n	%	n	%	n	%	n	%	n	%
The instructor(s) had a good mastery of the curriculum. (n = 33,449)	828	2.48	867	2.59	2,585	7.73	9,345	27.94	13,205	39.48	6,619	19.79	29,169	87.20
The instructor(s) was well prepared for the lessons. (n = 33,433)	719	2.15	789	2.36	2,183	6.53	8,567	25.62	13,381	40.02	7,794	23.31	29,742	88.96
The instructor(s)' teaching skills were good. (n = 33,388)	798	2.39	796	2.38	2,607	7.81	9,115	27.30	13,102	39.24	6,970	20.88	29,187	87.42
The instructor(s) showed good professional attitudes. (n = 33,377)	780	2.34	742	2.22	2,215	6.64	8,512	25.50	13,117	39.30	8,011	24.00	29,640	88.80
The instructor(s) was very involved. (n = 33,387)	705	2.11	677	2.03	2,043	6.12	8,178	24.49	13,103	39.25	8,681	26.00	29,962	89.74
The instructor(s) encouraged students to participate in the activities. (n = 33,320)	760	2.28	693	2.08	2,170	6.51	8,205	24.62	13,234	39.72	8,258	24.78	29,697	89.13
The instructor(s) cared for the students. (n = 33,363)	864	2.59	850	2.55	2,554	7.66	8,553	25.64	12,798	38.36	7,744	23.21	29,095	87.21
The instructor(s) was ready to offer help to students when needed. (n = 33,355)	815	2.44	723	2.17	2,159	6.47	8,254	24.75	13,189	39.54	8,215	24.63	29,658	88.92
The instructor(s) had much interaction with the students. (n = 33,389)	929	2.78	954	2.86	2,933	8.78	9,206	27.57	12,400	37.14	6,967	20.87	28,573	85.58
Overall, I have a very positive evaluation of the instructors. (n = 33,444)	923	2.76	739	2.21	1,982	5.93	7,809	23.35	13,226	39.55	8,765	26.21	29,800	89.10

respondents perceived that the instructors encouraged the students to participate. Third, as shown in Table 3, roughly four-fifths of the respondents perceived that the program promoted their development, including social competence (83.18%), emotional competence (82.45%), ability to resist harmful influences (83.84%), ability to distinguish between the good and the bad (85.35%), competence in making sensible and wise choices (84.02%), and overall development (84.36%). Fourth, while about four-fifths of the participants would recommend the program to their friends when they have similar needs, only a simple majority of them (69.02%) would join similar programs in the future (Table 4). Finally, more than four-fifths of the respondents indicated that they were satisfied with the program (Table 4). Regarding the degree of program adherence estimated by the workers, the mean level of adherence was 86.91%, with a range from 50 to 100%.

The extent to which the course	1 Unhelpful		2 Not Very Helpful		3 Slightly Helpful		4 Helpful		5 Very Helpful		Participants with Positive Responses (Options 3–5)	
(i.e., the program that all students have joined) has helped you:												
	n	%	n	%	n	%	n	%	n	%	n	%
It has strengthened my bonding with teachers, classmates, and my family.(n = 33,546)	1,962	5.85	5,261	15.68	13,105	39.07	10,022	29.88	3,196	9.53	26,323	78.47
It has strengthened my resilience in adverse conditions. (n = 33,511)	1,594	4.76	4,831	14.42	11,985	35.76	11,279	33.66	3,822	11.41	27,086	80.83
It has enhanced my social competence. (n = 33,476)	1,510	4.51	4,120	12.31	11,672	34.87	11,572	34.57	4,602	13.75	27,846	83.18
It has improved my ability in handling and expressing my emotions. (n = 33,482)	1,600	4.78	4,277	12.77	11,571	34.56	11,407	34.07	4,627	13.82	27,605	82.45
It has enhanced my cognitive competence. (n = 33,454)	1,628	4.87	4,345	12.99	11,550	34.53	11,302	33.78	4,629	13.84	27,481	82.15
My ability to resist harmful influences has improved. (n = 33,442)	1,519	4.54	3,886	11.62	11,187	33.45	11,550	34.54	5,300	15.85	28,037	83.84
It has strengthened my ability to distinguish between the good and the bad. (n = 33,448)	1,380	4.13	3,519	10.52	11,110	33.22	12,024	35.95	5,415	16.19	28,549	85.35
It has increased my competence in making sensible and wise choices. (n = 33,433)	1,438	4.30	3,906	11.68	11,193	33.48	11,733	35.09	5,163	15.44	28,089	84.02
It has helped me to have life reflections. (n = 33,441)	1,976	5.91	4,218	12.61	10,670	31.91	10,878	32.53	5,699	17.04	27,247	81.48
It has reinforced my self-confidence. (n = 33,417)	1,931	5.78	4,645	13.90	10,909	32.65	10,677	31.95	5,255	15.73	26,841	80.32
It has increased my self-awareness. (n = 33,427)	1,854	5.55	4,277	12.80	10,961	32.79	11,063	33.10	5,272	15.77	27,296	81.66
It has helped me to face the future with a positive attitude. (n = 33,431)	1,667	4.99	4,171	12.48	10,913	32.64	11,345	33.94	5,335	15.96	27,593	82.54
It has helped me to cultivate compassion and caring about others. (n = 33,427)	1,747	5.23	4,080	12.21	11,251	33.66	11,227	33.59	5,122	15.32	27,600	82.57
It has encouraged me to care about the community. (n = 33,411)	1,981	5.93	4,671	13.98	11,173	33.44	10,813	32.36	4,773	14.29	26,759	80.09
It has promoted my sense of responsibility in serving the society. (n = 33,452)	1,784	5.33	4,424	13.22	11,187	33.44	10,916	32.63	5,141	15.37	27,244	81.44
It has enriched my overall development. (n = 33,451)	1,609	4.81	3,624	10.83	10,228	30.58	11,442	34.21	6,548	19.57	28,218	84.36

TABLE 3 Perceived Effectiveness of the Program by the Program Participants

Results based on several one-way between-subjects ANOVA indicated that there were no significant differences in the views of program (VP), views of workers (WK), and perceived program effectiveness (EF) across three school bandings (students with different levels of academic achievement). Results of independent-samples t-test also indicated that there were no significant differences in these three variables between schools adopting the 10-h core program mode and schools adopting the 20-h full program mode.

The means and standard deviations of VP, WK, and EF are shown in Table 5. As the VP and WK items used a 6-point Likert scale and the EF used a 5-point Likert scale, percentage score was computed for each of the variables in order to compare these three variables fairly. The formulas for the percentage scores are as follows: (1) VP100 = (VP-1)*100/5, (2) WK100 = (WK-1)*100/5, and (3) EF100 = (EF-1)*100/4. The means and standard deviations of the three percentage scores are given in Table 5. The results indicated that the WK100 had the highest mean (73.16) while the EF100 (60.33) had the lowest,

TABLE 4 Other Aspects of Subjective Outcome Evaluation

If your friends have needs and conditions similar to yours, will you suggest that they join this course? (n = 33,318)						
1	2	3	4	Participants with Positive		

Definitely Sugo	ely Will Not Will Not uggest Suggest		Will Su	iggest	Definit Sug	ely Will gest	Responses (Options 3–4)		
n	%	n	%	n	%	n	%	n	%
2,053	6.16	4,412	13.24	20,889	62.70	5,964	17.90	26,853	80.60

Will you participate in similar courses again in the future? (n = 33,285)

1	1		2	3		4	4	Participants with Positive			
Definitely Partici	Will Not ipate	Will Partic	Not vipate	Wi Partic	ill ipate	Definite Partic	ely Will cipate	n Participants with Pos	options 3–4))		
n	%	n	%	n	%	n	%	n	%		
3,154	9.48	7,157	21.50	17,776	53.41	5,198	15.62	22,974	69.02		

On the whole, are you satisfied with this course? (n = 33,257)

1		2	!	3	;	4		ł	5	e	6	Participants		
Ve Dissat	ry isfied	Moder Dissat	ately isfied	Sligl Dissat	htly isfied	Satis	fied	Mode Sati	erately sfied	Ve Satis	ery sfied	With Po Respo (Option	ositive onses is 4–6)	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	
1,159	3.48	1,215	3.65	2,125	6.39	13,718	41.25	9,871	29.68	5,169	15.54	28,758	86.47	

TABLE 5 Means and Standard Deviations of the School Ratings Computed Based on Views of the Program Participants

Item	М	SD
Views of Program Participants (n = 213)		
VP	4.31	0.29
VP100	66.28	5.75
Views of the Workers Implementing the Program (n= 212)		
WK	4.66	0.28
WK100	73.16	5.63
Perceived Effectiveness of the Program (n= 213)		
EF	3.41	0.24
EF100	60.33	6.09

Note: VP is the mean of the 10 items in Table 1, WK is the mean of the 10 items in Table 2, and EF is the mean of the 16 items in Table 3. Percentage scores: VP100 = (VP-1)*100/5, WK100= (WK-1)*100/5, and EF100 = (EF-1)*100/4.

with the VP100 (66.28) in the middle. Paired-samples t-tests were conducted on the following three pairs: (1) VP100 – WK100, t = -41.17 (p < 0.001); (2) VP100 – EF100, t = 27.11 (p < 0.001), and (3) WK100 – EF100, t = 42.61 (p < 0.001). In summary, all the pair comparisons were significant at p < 0.001, showing that there were significant differences involved even with Bonferroni correction.

DISCUSSION

The present findings based on the subjective outcome evaluation strategy or client satisfaction survey showed that a high proportion of the respondents had positive perceptions of the program and the workers. Most importantly, roughly four-fifths of the respondents regarded the program as helpful to them. In short, the subjective outcome evaluation findings generally showed that the program participants had positive perceptions of the program as well as the workers who implemented the program. Nevertheless, it is noteworthy that although most of the participants had positive perceptions of the program to peers with similar needs, only about 69% of them indicated that they would participate in similar programs in future. This observation is consistent with those reported previously[9,10], suggesting that there may be a dissociation between perception of a program and the behavioral intention to participate in a program. Another explanation is that the students might think that similar programs may have the same content, thus there is no need to join such programs again.

In the limited Western studies on the quality of program implementation, studies generally show that the degree of program adherence was not high. For example, Ringwalt et al.[17] found that one-fifth of the workers implementing the program did not use the curriculum guide at all and only 15% of them followed it very closely. Likewise, in their review of 12 schools implementing a school-based victimization prevention program, Melde et al.[18] found that only one-third of the schools delivered the program as intended and could be regarded as having high program fidelity. In contrast to the Western findings, the estimated level of program adherence was quite high in the present study. Actually, the mean estimated degree of adherence in the present study (86.9%) was highly comparable to the figures based on the ratings made by trained observers (co-walkers)[19,20]. It is conjectured that the training provided to the workers as well as the commitment of the workers (as reflected by the perceptions of the students) contributed to this high level of program adherence.

As far as the school ratings are concerned, results indicated that there were no significant differences in these ratings (VP, WK, and EF) by school bandings. In other words, the academic achievement of the students as indicated by the school banding (1 for the highest level of academic achievement, while 3 for the lowest level of academic achievement) indicated no differentiation in these ratings. This is possibly due to the fact that the Project P.A.T.H.S. is not an academically oriented program, but a comprehensive, positive development or whole-person education program. The practical implication of this finding is that students who are less capable in academic domains may also enjoy and benefit from generic programs that deal with their all-round psychosocial development.

Previous research studies showed that well-evaluated programs should have adequate duration[1]. The present results indicated that there were no significant differences in the three school ratings (VP, WK, and EF) by mode of implementation (Group 1: 10 h; Group 2: 20 h). While the evaluation by the program participants did not differ in these two different implementation modes, future studies should investigate whether the intervention effect is linearly related to program duration. As aggregated data based on schools instead of individuals were used to test this hypothesis, it would be desirable to use individual scores as the basic unit of analyses.

The present study also showed that the mean of WK100 was the highest and that of EF100 was the lowest, with VP100 in the middle. The results indicated that participants gave significantly higher ratings to items concerning the workers (teachers and social workers) who implemented the program (WK) than to items concerning the curriculum design and classroom atmosphere (VP), as well as the effectiveness of

the program (EF). In other words, the instructors were in general appraised the highest, whereas the perceived effectiveness is relatively less favorably evaluated, with the general feature of the program including the classroom atmosphere in the middle. This finding appears to be quite natural and explicable because EF items may appear a bit difficult to some program participants because some of the items appear to be quite abstract and some of them concern long-term effects. On the other hand, program participants know their instructors and perhaps have built up a positive relationship with the program instructors. In general, the findings imply that the success of the program relies much on the quality of teaching provided by the teachers and social workers who implement the program. Nevertheless, it is noteworthy that the mean scores in these three domains can be regarded as on the high side in terms of the absolute values of the scores.

The present subjective outcome evaluation findings are important because they are based on a large sample size (n = 33,867 students involving 213 schools) and correlates of the subjective outcome evaluation ratings are rarely examined in the literature. Nevertheless, several limitations of the present study should be highlighted. First, as the data were reconstructed from the reports submitted by the schools, the unit of analysis was schools rather than individual program participants, which substantially reduces the power of statistical analyses. Second, while the present findings could be interpreted in terms of positive program effects and experiences of the program participants, it should be noted that there are several alternative explanations, such as demand characteristics (which was not high in the present study though). Despite these limitations, the present findings suggest that the Tier 1 Program and its implementation were perceived in a positive manner by the program participants and they perceived the program to be beneficial to their own development. These positive findings are important because they suggest that the program can successfully engage the students in the program implementation process. From a program evaluation point of view, as systematic evaluation of social services is at its infancy in different Chinese contexts, the present paper constitutes a model based on which future subjective outcome evaluation studies can be conducted [21,22].

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