How do contextual factors influence implementation and receipt of positive youth development programmes addressing substance use and violence? A qualitative meta-synthesis of process evaluations

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Objective. Positive youth development (PYD) often aims to prevent tobacco, alcohol and drugs use and violence. We systematically reviewed PYD interventions, synthesising process and outcomes evidence. Synthesis of outcomes, published elsewhere, found no overall evidence of reducing substance use or violence but notable variability of fidelity. Our synthesis of process evaluations examined how implementation varied and was influenced by context.

Data source. Process evaluations of PYD aiming to reduce substance use and violence.

Study inclusion criteria. Overall review: published since 1985; written in English; focused on youth age 11-18 years; focused on interventions addressing multiple positive assets; reported on theory, process or outcomes; and concerned with reducing substance use or violence. Synthesis of process evaluations: examined how implementation varies with or is influenced by context.

Data extraction. Two reviewers in parallel.

Data synthesis. Thematic synthesis.

Results. We identified 12 reports. Community engagement enhanced programme appeal. Collaboration with other agencies could broaden the activities offered. Calm but authoritative staff increased acceptability. Staff continuity underpinned diverse activities and durable relationships. Empowering participants was sometimes in tension with requiring them to engage in diverse activities.

Conclusion. Our systematic review identified factors that might help improve the fidelity and acceptability of PYD interventions. Addressing these might enable PYD to fulfil its potential as a means of promoting health.
Keywords: Young people; Positive Youth Development; Process evaluations Systematic review; Qualitative

Indexing keywords

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Objective

Positive youth development (PYD) interventions aim to develop positive assets such as resilience, social and emotional competencies and aspirations. They aim to address multiple inter-correlated risk behaviours including substance use (i.e. tobacco, alcohol and drugs) and violence. PYD is the dominant paradigm in youth work in the USA and UK.

PYD has the potential to reduce substance use and violence through various complex pathways, including addressing risk factors like disengagement from education and lack of social support, diverting young people away from risk behaviours by engaging them in positive forms of recreation, and providing credible health messages and signposting of health services.

However, the evidence base for PYD is unclear. Previous reviews of PYD effects on violence and drug use suggest benefits, but they are out of date and in the latter case not systematic. The review reported here is part of a larger study which synthesised evidence on PYD theories of change, process and outcomes. Synthesis of outcomes suggested a lack of evidence overall that PYD interventions are effective in reducing substance use and violence. Interventions included in this review were notably variable in implementation fidelity with some heterogeneity of effects. So that future PYD interventions might be more acceptable, appropriate and ultimately more effective in promoting health, we here report findings from our synthesis of process evidence. This synthesis aimed to examine how PYD interventions were implemented, how young people received them and how this was affected by contextual characteristics of places and persons. Synthesising process evidence is important to understand what practical factors need to be considered to ensure feasibility, fidelity, reach, acceptability and ultimately effectiveness. Recent guidance on process evaluation stresses the importance of qualitative data in understanding the complex processes via which implementation is affected by such factors from the perspectives of providers and
Examining how implementation varies with context also allows us to better understand variations in intervention fidelity, which in the case of PYD ranges from very good\textsuperscript{15,16} to suboptimal for some programmes and some sites\textsuperscript{17,18}.

**Methods**

This systematic review was described a priori in a research protocol\textsuperscript{19} and adheres to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidance.\textsuperscript{20} The PRISMA checklist can be found in the online appendix.

**Data sources**

We systematically searched 19 electronic bibliographic databases between October 2013 and January 2014, including PsycINFO, MEDLINE and ERIC, in addition to topic-specific websites, clinical trials registers and consultation with experts (details in web appendix). Our search strategy used both indexed and free-text terms relevant to key concepts identified from the review question and inclusion criteria, such as: population (e.g. youth or young people) AND intervention (e.g. after school clubs or community based programmes) OR population/intervention (e.g. youth work or youth club). References were first screened on title and abstract and then on full report where title and abstract suggested the study was relevant or provided insufficient information to judge. At both stages, screening was initially done by two researchers assessing batches of the same 100 references, moving to screening by a single reviewer once a 90\% agreement rate had been achieved. Reviewers referred to a second screener where uncertain.

**Inclusion and exclusion criteria**

Studies were included in the overall review if they: were published from 1985 onwards; were written in English; focused on youth age 11-18 years; focused on PYD interventions; reported on PYD theory, process or outcomes; and were concerned with reducing substance use or violence. Studies were included in this synthesis of process
evidence if they reported data on implementation or receipt of PYD and how this varied or was influenced by context (see web appendix for full details). Informed by existing literature,\textsuperscript{1,5} we defined PYD interventions as voluntary education to address generalised (beyond merely health) and positive (beyond merely avoiding risk) development. Development was defined as promoting: bonding, resilience, social, emotional, cognitive, behavioural or moral competence, self-determination, spirituality, self-efficacy, clear and positive identity, belief in the future, recognition for positive behaviour, opportunities for pro-social involvement or pro-social norms. Included PYD interventions needed to address at least one of these criteria but apply them to different domains such as family, community or school, or promote more than one of these criteria in a single domain. We included studies of interventions provided in community settings outside of school time since school-based interventions have been the subject of recent reviews.\textsuperscript{21,22} We excluded PYD interventions delivered in custodial or probationary settings or clinical settings or employment training for school leavers.

Data extraction

We extracted data using a modified version of an existing tool\textsuperscript{23} including items on: study location; intervention/components, development and delivery, timing of delivery and evaluation; provider characteristics; target population; sampling and sample characteristics; data collection and analysis; and findings relevant to our review including verbatim quotes, author descriptions and interpretations of the findings. After piloting and refinement, two reviewers working independently extracted study reports, before meeting to agree on coding.

Reliability and usefulness of process evaluations were assessed using a standard tool for process studies\textsuperscript{24} including: sampling; data collection; data analysis; the extent to which the study findings were grounded in the data (criterion 1-4); the extent to which the study privileged the perspectives of participants; and breadth and depth of findings (criterion 5-6).
Studies were assigned two types of ‘weight of evidence’ (low, medium or high): the reliability or trustworthiness of the findings, and the usefulness of the findings for shedding light on factors relating to the research questions. To be judged as highly reliable studies needed to have taken steps to ensure rigour in at least three of the first four criteria. Studies were judged as medium when scoring only two and low when scoring only one or none. To achieve a rating of high on usefulness, studies needed to achieve both depth and breadth in their findings or use methods that enable participants to voice their views on implementing or engaging in programmes, to ensure richness and complexity in their analysis, to answer the review questions. Studies rated as medium on usefulness only partially met this criteria and low rated studies were judged to have sufficient but limited findings. Quality was used to determine the qualitative weight given to findings in our synthesis, with none of the themes represented solely by studies judged as low on both dimensions.

Data synthesis

We qualitatively meta-synthesised process evaluations using thematic synthesis methods. Qualitative meta-synthesis aims to develop interpretive explanations and understandings from multiple cases of a given phenomenon by utilising research examining participant experiences. Two reviewers independently read study reports and then undertook line-by-line coding of the findings sections. They first applied in vivo codes to what Schutz termed first-order (verbatim quotes from participants) and second-order constructs (authors’ interpretations of the data). Reviewers wrote memos to summarise their interpretations of these first-order and second-order constructs. The analysis was then deepened by use of axial codes to make connections between in vivo codes. Reviewers wrote memos throughout to describe emerging ‘meta-themes’. Each reviewer developed an emerging coding template, a hierarchical organisation of the codes that were applied in the course of the analysis. The two reviewers then compared coding templates to agree a common template that formed the
basis for the synthesis, consisting of all the data as extracted and third-order constructs developed by reviewers. As the coding template was developed, the reviewers referred to tables summarising the methodological quality of each study to ensure the synthesis reflected study quality.

Results

Search results

After removing duplicates, 32,394 studies were identified from the search. Of these, ten studies reported in 12 papers, all concerned with reducing substance misuse and violence or anti-social behaviour, met the inclusion criteria (see figure 1) for the synthesis of process evaluations. All studies used qualitative methods of data collection and analysis to evaluate processes related to implementation.

Characteristics and quality of process evaluations

Of the ten included studies, eight were conducted in the USA, one in Australia and one in England. Four studies targeted youth aged 14 or older; three targeted those aged both above and below 14; and three did not report the age range targeted. Four interventions targeted individuals on the basis of individual disadvantage; two on the basis of area or school disadvantage; one on both individual and area disadvantage; and three did not involve targeting on either basis (Table 1).

Study reliability and usefulness varied (Table 2). Three studies were judged to be of high reliability and usefulness; one as having medium reliability and usefulness; and three as of low reliability and usefulness. One study was judged as having high reliability and medium usefulness while two were judged as having low reliability but high usefulness.

Thematic synthesis of process evaluations
Theme 1: Collaboration with the community. A major theme across a number of studies was the importance of collaborating with local communities to support implementation. Sub-themes within this were: the importance of cultural sensitivity with ethnic minority communities; the challenges in building trust; and the importance of collaborating with communities and with schools.

Importance of cultural sensitivity, collaboration and integration with ethnic minority communities. The importance of cultural sensitivity and collaboration when implementing programmes in ethnic minority communities was a sub-theme across three studies, all judged to be of low reliability but varying degrees of usefulness. These reported that formal and informal community engagement was a key factor in ensuring programmes were culturally sensitive, accessible and appealing to young people and their parents. This was particularly important when programmes were targeting or situated within marginalised ethnic minority populations. For example, in a process evaluation judged to be of high relevance but low reliability, Armstrong and Armstrong reported from interviews with site coordinators delivering after-school programs in a south-western US state that a programme’s cultural relevance within an “ethnically diverse community” meant that it was “important to have a strong cultural awareness” and was essential to the programme’s success. This included both “outreach projects with parents” and with schools in the local area, and “liaison ... with a trusted member of the community who could communicate with the parents, often times in Spanish”.

Lee and colleagues study, though judged to be of both low reliability and relevance, corroborated this finding. In their evaluation of a PYD programme targeting the Aboriginal communities of the Northern Territory of Australia, they highlighted the importance of seeking and incorporating the views of the wider community, not just those of young people or parents. This, it was suggested, could provide support through the generation of ideas and
allay fears among minority ethnic groups that the programme was "a non-Indigenous solution so there is little ownership of it by Indigenous people". Community consultation led to activities that were youth-orientated but culturally relevant, such as “bush hunting excursions and using computers to record traditional music”. This study found that as the programme progressed, staff became more active in encouraging community members to get involved, including through “engaging in regular formal meetings and informal discussion” with members of the community.

Lee and colleagues also highlighted the importance of increasing both the cultural relevance and participation of the local community; addressing potential language barriers by “translating key proceedings” and communicating with indigenous members “in their language”. Armstrong and Armstrong also found instances where young people were only allowed to access and participate in the programme, because “the parents were able to communicate with, and trusted the liaison” officer connected with the programme.

In some cases, programmes actively recruited community members as staff. Lee and colleagues described this as “pivotal to the initiative’s success”. Such actions could also be seen as providing the additional benefit of providing local role models. For example, after identifying a “lack of Chicano Latino adult role models” that could “encourage, empower and develop leadership skills and qualities” of local Chicano youth in Minnesota, programme providers in the low-quality study by Bloomberg and colleagues trained local community members, as “facilitators” who could “work closely with youth in the initial 2 day training” with the aim of establishing and maintaining a bond with them.

**Challenges with community engagement and establishing trust.** However, two studies of differing quality noted challenges in relying on volunteer community engagement and establishing trust of parents. These were studies of interventions that did not specifically target diverse ethnic populations but attempted to involve parents and local
community members. For example, as reported by a study of high reliability and usefulness by Schwartz and colleagues,\textsuperscript{35} successful implementation of an intervention component relying on volunteer mentors was challenging when mentors were not always reliable in maintaining contact, leaving participants feeling “disappointed”; as one young person said, she hoped her mentor “would be there more than she was…and, and she wasn’t”.

Building trusting and openly communicative relationships with parents could also be challenging. Maxfield and colleagues\textsuperscript{18} studied the Quantum Opportunity Program, implemented in the United States, in a process evaluation judged as providing highly useful findings but with low methodological reliability. They found that trust and open communication were seen as important means of maintaining contact with young people and encouraging uptake of intervention activities. The case managers in this programme reported parents who appeared “anxious to limit the exposure of family problems”, who seemed to experience case managers as “intrusive”, or may have “felt threatened” by the mentoring relationships that case managers established with their children, were subsequently the most “most difficult to reach” compared to parents who actively supported case managers and “reinforced the value of attending program activities”\textsuperscript{18} all quotes p.58

\textit{Collaborating with and utilising local community resources.} Another sub-theme concerned with collaborations with others in the local community was the importance of collaboration with other community agencies to enable programme implementation. This was apparent in three studies\textsuperscript{18,30,32} of variable reliability and usefulness. Armstrong and Armstrong\textsuperscript{30} found that it was “extremely important for the site to utilize community resources from a programmatic standpoint” in order to expand the range of activities offered, a critical element of PYD. For example, local libraries proved to be an “unplanned benefit” that could help deliver a reading programme. Programme providers cited being able to host “occasional large-scale events” by “taking advantage” of a nearby Boys and Girls Club.\textsuperscript{30}
Local funding bodies were considered another important local resource to support positive youth activities. This was the case in the study of medium reliability and relevance by Berg and colleagues\textsuperscript{32} where the programme received a grant that “\textit{enabled [young participants] to receive training in photography and show their work at a photography exhibit}”.

The importance of collaboration was also apparent in Maxfield and colleagues\textsuperscript{18} study of the Quantum Opportunity Program in which providers forged “\textit{partnerships with agencies that specialized [in a range of life skills training topics] such as substance abuse prevention, conflict resolution training, date rape, and sexual abuse}”. The importance of being able to make use of other local services to maximise breadth of opportunities was regarded as particularly important to fill gaps in programme providers’ expertise, such as when drawing on “\textit{student volunteers from the local university}” to offer tutoring to support sites where case managers felt they lacked the skills to provide such services.\textsuperscript{18 p.64}

\textbf{Collaboration with schools.} A final sub-theme regarding community collaboration highlighted that collaboration with schools, while critical to implementation, could be time-consuming and challenging. Three studies,\textsuperscript{18,30,38} two based in the US and one in the UK, examined the importance of liaising with schools to support the successful implementation of programmes. All three studies were judged to be of high usefulness but variable in terms of methodological reliability. Site co-ordinators in Armstrong and Armstrong’s\textsuperscript{30} study of after-school programmes in the south-western US indicated that communicating with other community stakeholders to support the development of youth “\textit{such as schools, had an important impact on program implementation}”, particularly because they had a number of after-school programmes located off schools’ sites. One way of dealing with barriers to communication arising from this was to designate a school liaison, who could work across programme sites but who was an employee of a single school. The schools then also acted as
a channel to disseminate information about programme events to young people and their families in order to reach a wider audience and increase programme reach.

Wiggins and colleagues’ study of after-school youth development targeting at-risk young people across England, which was judged to be of high reliability and usefulness, also found that “working with schools was crucial” for recruiting young people to programmes, though negotiating “access and referral routes” was time-consuming. In a context of providers aiming to meet challenging recruitment targets, some sites reformatted their programme so that young people attended as an alternative rather than a supplement to their normal schooling, a major distortion of the intended intervention model. Maxfield and colleagues also reported that collaborations with schools in the Quantum Opportunity Program were subject to logistical challenges. When case managers who transported young people to the school where tutoring services were provided found it “proved too burdensome”, participants’ uptake of tutoring plummeted.

Theme 2: Young people’s relationship with programme providers and peers. The second major theme that was apparent across a number of studies was the importance of young people’s relationships with programme providers and peers in maximising the acceptability and potential impact of interventions. Sub-themes within this were the importance of calm and authoritative providers and positive peer relations.

Calm and authoritative programme providers. One sub-theme was the importance of programme providers attending to young people in a calm and nurturing yet authoritative way, including in response to any challenging behaviour exhibited by participants. Three studies of varying reliability and usefulness described provider attitudes and responses to young people in this context. The ‘Stand Up Help Out’ programme was evaluated by Bulanda and McCrea in a process evaluation judged as highly reliable and of medium usefulness. They reported that successful implementation was associated with staff signalling their
continued commitment to providing ‘unconditional positive regard’ when faced with
challenging behaviour from young participants. It was reported that this response style was
acceptable to the young people, who did not feel they were treated ‘negatively’. Similarly,
Maxfield and colleagues’ evaluation found evidence supporting the need for case managers
to engage with young people as individuals rather than collectively as a group. They found
that “the most successful mentors used a balance between nurturing and discipline” when
interacting with young people.\textsuperscript{18} p.59

In contrast, Cross and colleagues\textsuperscript{35} reported in what was judged a highly reliable and
relevant study that staff struggled to respond to young people’s frequent challenging
behaviour with “very little redirection from staff members” and a disciplinary approach that
“appeared capricious and confusing to youth”.\textsuperscript{35} In another site, the same evaluators, found
staff to be “irritated and apathetic”, appearing to engage more with each other than
interacting and addressing young people’s challenging behaviour.\textsuperscript{35}

\textbf{Positive peer relations.} A further sub-theme was the importance of positive and
supportive peer relations underpinned by staff and by programme structure, as examined by
three studies of differing reliability and usefulness. For example, a high-quality study by
Bulanda and McCrea\textsuperscript{34} described a US after-school programme where social differences,
such as membership of different “street alliances” that could be a cause of conflict outside of
the programme, did not necessarily prevent mutual collaboration and support within the
programme as long as participants were able to “prioritize their connectedness over the
potential discord created by differences” and “recognize relationship problems and focus on
relationship strengths”. However, Cross and colleagues\textsuperscript{35} argued that tensions among
participants or between participants and staff could only be overcome in sites that were well
managed. A lack of organisation and high turnover of staff at one site within their study was a
key factor in young people not seeming “to enjoy each other’s company” and that the
positive outcomes observed in another site, might be attributable to “the friendships among students, which were in part facilitated by stable site management”. Bloom et al. described how the National Guard Youth Challenge Program separated participants who belonged to different gangs into different ‘squads’ and removed gang symbols such as tattoos that could act as “physical reminders of past affiliations”. While problems associated with gang membership were not always easily overcome, staff members did report that external problems were less likely to intrude during the residential phase of this programme, where they “have them 24/7” and can instil values that young people can take “home with them”. 

**Theme 3: Staff retention.** Staff retention was another key theme evident across three studies of differing reliability and usefulness. These studies reported on the importance of staff continuity to ensure programmes were implemented fully and appropriately, and the difficulty of offering full-time posts in the youth-work field. 

**Staffing continuity essential to successful implementation.** Within this, a key sub-theme was the importance of staffing continuity to intervention delivery. As Armstrong and Armstrong noted, after-school programme site co-ordinators felt that effective implementation and sustainability relied on minimising staff turnover. This was a challenge for some programmes. However, in the after-school programme Cross and colleagues evaluated, “six of the original fourteen staff members quit or were fired before the end of the year”. Similarly, Lee and colleagues reported that turnover of staff “impacted significantly on program continuity and workloads”. Maxfield and colleagues observed that they were “fortunate [that] turnover [in certain sites] was relatively low”. However, staff turnover led to a failure in sustaining mentoring relationships when unfilled staff positions resulted in participants not having a “primary mentor for as long as two or three months”, and when participants had multiple case managers.
Difficulty offering full-time posts in the youth work field. Across a number of studies, the lack of full-time positions increased the challenge of securing and retaining qualified staff. To overcome this, Armstrong and Armstrong\textsuperscript{30} report how one programme aimed to recruit staff who were not looking for full-time work, such as college students interested in gaining experience of youth work. Difficulties with retaining trained employees could also mean that replacement staff were not well trained. Cross and colleagues\textsuperscript{35} report that youth workers who had been retained since programme initiation “received more than 40 h[ours] of training on average” compared to those who had replaced them, who “received less than 6 hours” and that sites with high employee turnover were less likely to have staff who were highly trained because it was not possible to offer them the original training.

Creative attempts to compensate for lack of trained staff included drawing on existing skills that happened to be held by staff members and incorporating these opportunistically into programme activities. For example, Armstrong and Armstrong\textsuperscript{30} observed that at one site an employee “with extensive orienteering skills” was encouraged “to organize camping trips and day hikes for youth”, and that at another site, a staff-member “who enjoyed jazz dancing started a dance program”.

However, two studies\textsuperscript{18,37} reported that it was difficult to overcome limitations in skills due to a lack of training, leading to an inability to provide the range of activities normally expected of a PYD programme. For example, Bloom and colleagues\textsuperscript{40} a paper reporting on the study by Schwartz et al. 2013 found that provision of individual tutoring was impossible to implement because of lack of tutor capacity and had to be “abandoned midway through the year”. The authors felt that despite providing an alternative academic activity, the lack of one-to-one tutoring may have “contributed to withdrawal of youths whose parents viewed tutoring as the main draw of the program”.\textsuperscript{40} p.54 In addition, Maxfield and colleagues\textsuperscript{18} reported that programmes found it difficult to secure staff with expertise across the range of
PYD domains. For example, programmes expanded to include an educational component challenged staff “hired on the basis they could be case managers not tutors or teachers” and who “required extensive training and technical assistance”. Other sites that did not provide “extensive in-service training to improve case managers’ tutoring skills” relied on volunteer tutors instead, though these volunteers tended only to work for the programme for “one or two semesters”.

Theme 4: Youth led empowerment. Our final theme drawn from five studies concerns the importance of, and potential contradictions and challenges inherent in, ensuring young people are empowered to make decisions about their engagement in programme activities. Sub-themes concerned young people determining their own engagement, limitations to such choices and tensions arising from choice.

Young people determining their own engagement in activities. One sub-theme within this relates simply to the extent to which young people were empowered to choose in which PYD activities to participate. This was described in three studies of variable reliability and usefulness. Berg and colleagues described youth empowerment as a key component in their Youth Action Research for Prevention programme and suggested that staff needed to be trained in “facilitation techniques” to halt the tendency for staff to determine decisions about how community engagement is undertaken. Young people’s decision-making processes were considered more important than their final choice of activity in Baker and colleagues’ study of the South Baltimore Youth Centre. The evaluation, judged as being of low reliability and relevance, reported that when activities were “imposed [in a] top down [manner they] failed and were abandoned” and thus providers aimed to give young people authority in developing and executing activities. Schwartz and colleagues’ study of youth-initiated mentoring found that when young people were able to choose their mentors, the mentoring relationship was more likely to be successful.
Limitations to choice provided. In contrast, two studies judged as highly reliable reported that young people in some interventions had very limited empowerment to shape and determine their involvement. For example, empowerment in the ‘All Stars’ curriculum was highly restricted. In this study, also judged to be of high usefulness, young people’s choices were restricted to a list predetermined by the site director and programme assistant at the start of each day. Empowerment was also restricted in the programme evaluated by Schwartz and colleagues.19

Tensions arising from choice. Another sub-theme was the tensions that could arise when empowering young people to choose which activities in which to engage. Four studies, judged to be of high relevance with variable reliability, provided data on young people’s choice of activities, finding that some programme components were often rejected by young people on the basis that they were unappealing. Sometimes these were activities with a learning component, such as “computer-assisted instruction” and “community service”, which were not received with “enthusiasm”.18 all quotes, p.62 This was also the case for “computerised job training” which was “ignored” and academic assistance.35 Wiggins and colleagues argue that an academic style could alienate young people, particularly those whose lives are “chaotic and hard” and suggest that young people need to be able to get involved in activities at a level that is “most appropriate for them at any given time”. This might suggest the importance of a diversity of provision, not only to enable choice but also because different young people will have different preferences and developmental needs.

However, whereas some process evaluations, as well as much of the theoretical literature, suggested that young people’s empowerment to choose activities is central to PYD, process evaluation of the Quantum Opportunity Program suggested that facilitating choice may in some cases deter engagement in the broad range of activities, which is also commonly regarded as a central feature of PYD. This study, judged to be of low quality but high
relevance, reported that some sites offered more recreational activities (such as outings to the
cinema, swimming, etc.) because they attracted "more enrollees than did other activities".

However, as young people got older they resisted staff’s promotion of “activities with
learning content” and continued to favour recreational activities that providers had originally
used “to attract youth to the program”. Participants reported “that they missed doing “fun
things” and that museum and other cultural activities were boring”. Similarly, when there
was a scheduling clash between attending summer school and taking up summer
employment, case managers were more likely to recommend summer school, but ultimately,
they were “not able to prevent an enrollee from choosing [paid work]”. This contrasted with
programme sites that provided a balanced combination but offered participants little choice,
which appeared to have “less difficulty in maintaining interest” of young people. A lack of
choice could be received positively by participants when it offered them something new.

Participants in the National Youth Guard mentoring programme “welcomed the small class
size, tailored instruction, and self-paced approach” of the high school completion
programme. The authors noted that a key element of the success of their educational
component was that it was noticeably different from what young people were used to
experiencing in school, as it combined both structure and individual support.

Maxfield and colleagues reported that some sites provided financial incentives to
increase engagement in specific educational activities, such as computer-assisted instruction
and assessment tests. However, the two sites that took these approaches found that it was
“effective for only short periods of time and only for students already inclined to spend time
on the computer” and did not prove effective in motivating already resistant young people.
The use of incentives was also reported as problematic by Cross and colleagues. To
increase engagement in programme activities, young people were randomly assigned to
groups that accrued points for attendance. However, programme staff thought the system
unfair and decided to place high-attending youth together “to ensure the attending students would receive the maximum points” thus undermining the intended system. This ”probably did not encourage attendance among the lower attending youth because they were placed in groups with very low probabilities for receiving points”.

In both of these programmes using incentives, there was a tension in providers’ attitudes to empowerment. Although programme providers wanted to enable choice, they also sometimes wanted to constrain choice to ensure young people engaged in the programme overall or in specific activities staff regarded as important.

Conclusions

A number of themes emerged from our synthesis. Formal and informal community engagement was a key factor in ensuring programmes were culturally sensitive, accessible and appealing to young people and their parents, as well as the wider community. Employing community members could be pivotal to successful implementation and providing role models. However, volunteers could be unreliable, for example, when acting as mentors. Collaboration with other community agencies could also be important particularly in expanding the range of activities being offered. Another theme was the importance of young people’s relationships with providers and peers. Providers should ideally relate to young people in a calm, nurturing yet authoritative way. Peer support was also important, sometimes in the face of challenges with social differences among young people, such as in membership of different gangs. Skilled providers could bridge these social differences by helping participants recognize common ground, but this was difficult where staff were poorly trained.

More generally, staff continuity was reported to be critical for PYD since such programmes require staff with a diversity of skills and experiences who can offer participants a range of activities as well as durable relationships. Retention was challenging where programmes, mostly operating after school or at weekends, could not offer full-time
positions. A final theme concerns the importance of, and challenges with, ensuring young people were empowered to make decisions about programme activities. This required that staff were trained in facilitation rather than merely being directive. Tensions could arise between PYD’s aims of empowering young people to choose and when requiring them to engage in different activities to develop specific assets, such as vocational or academic skills.

**Limitations**

A limitation of the review was that it omitted potentially includable studies not written in English or published before 1985. The preponderance of US evaluations means that the generalisability of the evidence in our synthesis remains uncertain. This, coupled with the poor reliability and lack of interpretative depth of most of the studies means that it is likely that studies, and therefore our synthesis, may have missed important and relevant contextual determinants of implementing PYD programmes. The qualitative studies included in this review drew on subjective accounts and offered rich explanations of the processes for how context might affect implementation. The review found no quantitative analyses of what correlations exist between measures of context and implementation. Future implementation studies should use mixed methods to examine these questions of both what and how.

**Implications for research, policy and practice**

Future process evaluations of the implementation of PYD programmes should be conducted more rigorously and reported more transparently. Increased use of direct quotes of staff or young people’s views would contribute to transparency.

Our synthesis of evidence on the effectiveness of PYD programmes to reduce or prevent violence and substance use found no evidence overall that these are effective. The interventions included in this review varied notably in their fidelity of intervention. The synthesis presented here identifies a number of factors which are likely to be critical for
successful implementation of PYD either when delivered within intervention studies or when scaled up. Greater awareness of these factors might enable better implementation and greater acceptability, and possibly enhanced effectiveness, of future PYD interventions.

The critical factors we identified include valuing and encouraging community engagement in the delivery of PYD programmes. Specific efforts to mobilise the community should focus on: adequately training and supporting community members as volunteers in the delivery of PYD, increasing its cultural sensitivity and appeal to young people. At the outset, programme funders and providers should engage with the challenges of establishing a highly skilled work force that can implement PYD programmes, considering the numerous challenges to recruiting, training and retaining practitioners who are often being offered part-time work, of potentially low wage, and for time-limited periods. Given the breadth of the types of activities PYD aims to deliver, there is a high chance that programme providers will also need to collaborate with other local agencies, such as schools, libraries or community health initiatives. A balance is required between empowering young people to choose which activities they wish to engage in, focusing their attention on particular activities of interest to the programme aims, and offering a diversity of activities overall.
So what? Implications for health promotion practitioners and researchers

What is already known about this topic?

Positive youth development (PYD) interventions aim to develop positive assets such as resilience, social and emotional competencies and aspirations and to use these assets to address multiple inter-correlated risk behaviours, including tobacco, alcohol and drugs use and violence.

What does this article add?

Our systematic review and synthesis of process evaluations suggests that community engagement, collaboration with other agencies, and the recruitment and retention of calm but authoritative staff are key to successful implementation. But staff retention is a challenge with part-time contracts and limited funding. The PYD imperative of empowering participants is sometimes in tension with the imperative to engage participants in diverse activities.

What are the implications for health promotion practice or research?

Addressing these factors might enable PYD to fulfil its potential as a means of promoting health. At the program outset, funders and planners should establish a highly skilled workforce and mobilise the community including by training and supporting community members as volunteers and increasing cultural sensitivity and appeal to young people.
References


11. NOYES J, POPAY J, GARNER P. What can qualitative research contribute to a Cochrane systematic review of DOT for promoting adherence to tuberculosis treatment? . Qualitative Research and Systematic Reviews workshop; 28-29 June, 2005; Continuing Professional Development Centre, University of Oxford.

12. Thomas J, Harden A. Methods for the thematic synthesis of qualitative research in systematic reviews. *BMC Medical Research Methodology.* 2008;8:45.


1 Figure captions

2 Figure 1. Flow of studies through the review
<table>
<thead>
<tr>
<th>Study</th>
<th>Country</th>
<th>Characteristics of the programme</th>
<th>Setting &amp; Provider</th>
<th>Content</th>
<th>Length</th>
<th>Methods of evaluation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armstrong et al., 2004</td>
<td>US; City in the southwest</td>
<td>Supervised after-school program</td>
<td>After-school sites; Parks, Recreation, and Libraries Department</td>
<td>Life skills, educational support, healthy living skills, social and peer interaction, physical activity, cultural awareness, and fine arts and locally relevant programme activities</td>
<td>Not stated</td>
<td>Qualitative: In-depth interviews; and non-participant observation Data analysis:</td>
</tr>
<tr>
<td>Baker et al., 1995</td>
<td>US; Baltimore</td>
<td>A violence, substance abuse and delinquency prevention program</td>
<td>After school youth centre; South Baltimore Youth Center</td>
<td>Safe space to engage in positive social activities; job training and included; case management, mentoring, tutoring and community involvement; outreach and collaboration with other agencies</td>
<td>Not stated</td>
<td>Qualitative: Unstructured interviews and focus groups</td>
</tr>
<tr>
<td>Berg et al., 2009</td>
<td>US; Hartford</td>
<td>Youth Action Research for Prevention (YARP)</td>
<td>Community-based after-school and summer programme; Prevention research educators</td>
<td>Participatory action research in the form of formative community ethnography where participants were trained to identify adolescent risk behaviours, develop a collective action plan, and carry out group activities, including using research to understand their community</td>
<td>8 months</td>
<td>Mixed methods Qualitative: Staff interviews ethnographic observation, youth focus groups and youth self-reflection Quantitative: Quasi-experimental (pretest and posttest)</td>
</tr>
<tr>
<td>Bloomberg et al., 2003</td>
<td>US; Minnesota</td>
<td>Chicano Latino Youth Leadership Institute</td>
<td>Community; Prevention and health community division</td>
<td>Leadership opportunities through conference presentations and specific youth service projects.</td>
<td>Unstated</td>
<td>Qualitative: Focus groups and youth reports</td>
</tr>
<tr>
<td>Bulanda et al., 2013</td>
<td>US; Chicago</td>
<td>Stand Up Help Out (SUHO); leadership development After-School program</td>
<td>Schools and community; School and graduate social work students</td>
<td>Paid social work apprenticeship. Activities also included mentoring children, conflict resolution, planning community health and safety fairs, college tours. Counselling available.</td>
<td>Not stated</td>
<td>Qualitative: Youth reports, roundtable discussions, interviews and participant observations</td>
</tr>
<tr>
<td>Study</td>
<td>Country</td>
<td>Setting</td>
<td>Target Age</td>
<td>Program Description</td>
<td>Evaluation Methods</td>
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<tr>
<td>Cross et al., 2010</td>
<td>US: East coast</td>
<td>The All Stars prevention curriculum: an enhanced after-school program</td>
<td>11 to 14 year olds</td>
<td>Middle schools; Government agency providing recreation and leisure activities; Leisure activities, e.g. fitness activities, board games, arts and crafts, field trips, computer projects, computer time, service learning, workforce skills, and holiday and special events celebrations</td>
<td>3 days per week, for 3 hours Mixed methods: Qualitative: Routine documents and data, participant survey and site observations; Quantitative: Experimental (pretest and posttest)</td>
<td></td>
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<tr>
<td>Lee et al., 2008</td>
<td>Australia</td>
<td>A community-driven youth initiative</td>
<td>All young people in the community</td>
<td>Community: Programme co-ordinator, case worker and Indigenous youth worker; Diverse activities: including youth leadership opportunities, youth and community festivals, sporting carnivals and health promotion</td>
<td>Not stated Qualitative: Interviews, document analysis and staff diaries</td>
<td></td>
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<tr>
<td>Maxfield et al., 2003</td>
<td>US: various states</td>
<td>Quantum Opportunities programme</td>
<td>14 year olds</td>
<td>Schools and community-based organisations; Intensive case management, mentoring and educational, developmental, recreational cultural and community based activities</td>
<td>14 hours per week; for up to 5 years Mixed methods: Qualitative: Observational site visits; Quantitative: Experimental (pretest and posttest)</td>
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<tr>
<td>Schwartz et al., 2013</td>
<td>US</td>
<td>The National Guard Youth Challenge Program Youth initiated mentoring (YIM) programme</td>
<td>Youth ages 16–18</td>
<td>Community: National Guard members; Two-week orientation / assessment followed by a 20-week residential phase: Classes on academic learning, life skills, health, and job skills. Other activities included physical training, sports, leadership, community service and citizenship activities. Post-residential phase: participants set and fulfil education vocational training or employment development plan</td>
<td>Full-time residential: 5 months, post-residential: 1 Year Qualitative: semi-structured interviews; Quantitative: Quasi-experimental (pretest and posttest)</td>
<td></td>
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<tr>
<td>Wiggins et al., 2008</td>
<td>UK</td>
<td>Youth service providers</td>
<td>Young people aged 13-15 at risk of teenage pregnancy, Youth centres after school; Community youth services</td>
<td>Overall activities: young people’s health, education and social development. Individual project activities also including: education,</td>
<td>6-10 hrs weekly provision for a year Qualitative: Routine monitoring data, questionnaires and interviews with</td>
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<tr>
<td>substance use or school drop out</td>
<td>training/employment opportunities, life skills, mentoring, volunteering, health education, arts and sports, and advice on accessing service</td>
<td>young people, staff, focus groups, and site observations. Quantitative: Experimental (pretest and posttest)</td>
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</tbody>
</table>
Table 2. Reliability and usefulness of findings.

<table>
<thead>
<tr>
<th>Study</th>
<th>Quality of Evidence</th>
<th>Reliability of findings</th>
<th>Usefulness of findings</th>
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<tbody>
<tr>
<td></td>
<td>Low</td>
<td>Medium</td>
<td>High</td>
</tr>
<tr>
<td>Armstrong and Armstrong 30</td>
<td>✓</td>
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<td></td>
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<tr>
<td>Baker et al.31</td>
<td>✓</td>
<td></td>
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<tr>
<td>Berg et al.32</td>
<td></td>
<td>✓</td>
<td></td>
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<tr>
<td>Bloomberg et al.33</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Bulanda and McCrea34</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Cross et al.35</td>
<td>✓</td>
<td></td>
<td></td>
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<tr>
<td>Lee et al.36</td>
<td>✓</td>
<td></td>
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<tr>
<td>Maxfield et al.18</td>
<td>✓</td>
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<tr>
<td>Schwartz et al.37</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wiggins, et al.38</td>
<td>✓</td>
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</tbody>
</table>