Impact of Social Media on Current Medical Conferences

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► Facebook
► international microsurgery club
► medical education
► brachial plexus
► international course on super microsurgery

Abstract

Background Medical conferences are forums for research, continuing medical education, and networking. Social media is increasingly used for communication and networking due to its low cost and ability to overcome large distances. This study investigates the impact that social media brings to the current conference system.

Methods There are three parts of this study: (1) comparing two similar brachial plexus injuries (BPIs) courses without (2009) and with (2017) social media support, and the participants’ feedback; (2) sharing our experiences in the management of the 2018 International Course on SuperMicrosurgery (ICSM) conference; and (3) evaluating the studies from the social media platform International Microsurgery Club (IMC), for the consensus pertaining to social media and conference system.

Results With the help of social media, international attendance increased during the 2017 BPI conference compared with the 2009 BPI course (25 nationalities in 2009 vs. 35 in 2017). At least 23% obtained their meeting information through social media. Live surgery was the overall main attraction (79%). The 2018 ICSM meeting revealed that video posts increased attendance; videos that were the most effective in attracting (viewership) were either short or pertained to surgical procedures. Facebook, Messenger, and WeChat smartphone applications were effective for immediate communication and troubleshooting among the participants. From the IMC polls, 78% believe that the social media and the conference complemented each other. 97% attended the conference to update their skills and knowledge.

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Medical conferences play a major role for professionals in continuing their education. They provide unique learning resources and career-building opportunities, such as self-promotion and face-to-face interaction with the hosts and experts. However, time consumption and high costs may limit participants. Furthermore, the increasing amount of conferences makes it difficult for professionals to select quality meetings. In recent years, the ubiquity of the internet and social media are dramatically changing the learning habits of medical professionals. Online platforms, such as customized websites, Facebook, Twitter, and LinkedIn, have become popular for medical education. Facebook, in particular, is the largest social media platform with more than 2 billion users since 2017, and has been one of the best online forums for professional interaction. Its “Facebook Group” and “Facebook fan” pages can potentially be effective forums for gathering global professionals in different fields.

International Microsurgery Club (IMC), established by the senior author Dr. Tommy Nai-Jen Chang (Taiwan) on May 6, 2016, is based on Facebook and is now the biggest online microsurgery platform in the world, with over 10,000 members in 2.5 years after establishment. IMC provides abundant useful professional information, including case discussions, research collaborations, conference information, related product introductions and other educational resources. IMC also provides links to many other platforms, such as a Facebook fan page, a customized website, and an instant Messenger group for individual meetings in a clear, organized, and interactive manner.

Since conferences and social media platforms are both major learning systems for professionals, it may prove valuable to take a detailed look at how they can work together to promote learning. In June 2017, the organizers of the ninth Congress of the World Society Reconstructive Microsurgery (WSRM) held in Korea created a Facebook fan page that provided general information, conference schedules, recommendations from international masters, local tour information, and local cultural events. All the posts on the page were crossposted to IMC. This Facebook fan page was not only open to the meeting participants but also to any of the public who were interested.

The two courses had a nearly identical program including eight live surgeries, lectures, and question and answer panels. The main difference was without (2009) or with (2017) social media promotion. In 2017, 15 months prior to the BPI course, a customized Facebook fan page "2017 2nd Instructional Course of Adult BPI" was established by Dr. T. N. J. C. for the conference promotion. Information introducing the faculty and the host centers were posted. Educational resources were also regularly shared on the page, offering both basic and advanced understandings of adult brachial plexus injury and its therapy. All the posts on the page were crossposted to IMC. This Facebook fan page was not only open to the meeting participants but also to any of the public who were interested.

The contents of the courses and the demographics of the participants were compared. The participants in the 2017 BPI course were asked to fill out a questionnaire using Google Survey during the conference. The questions were related to the satisfaction of the conference and the idea related to the social media promotion.

Conclusion Social media is a quick and economic tool in promoting medical conferences and instant messenger systems offer immediate communication amongst associates. Despite the popularity of social media, the conference still has its irreplaceable role. The combination of the conference and the social media enhances the training and education of microsurgeons.

Methods

2009 and 2017 Instructional Courses for Adult BPI (BPI Courses)

These two conferences were hosted by professor D.C.C.C. and his team belonging to the Division of Reconstructive Microsurgery, Department of Plastic and Reconstructive Surgery at the Chang-Gung Memorial Hospital, Linkou Medical Center, Taiwan.

The two courses had a nearly identical program including eight live surgeries, lectures, and question and answer panels. The main difference was without (2009) or with (2017) social media promotion. In 2017, 15 months prior to the BPI course, a customized Facebook fan page “2017 2nd Instructional Course of Adult BPI” was established by Dr. T. N. J. C. for the conference promotion. Information introducing the faculty and the host centers were posted. Educational resources were also regularly shared on the page, offering both basic and advanced understandings of adult brachial plexus injury and its therapy. All the posts on the page were crossposted to IMC. This Facebook fan page was not only open to the meeting participants but also to any of the public who were interested.

The contents of the courses and the demographics of the participants were compared. The participants in the 2017 BPI course were asked to fill out a questionnaire using Google Survey during the conference. The questions were related to the satisfaction of the conference and the idea related to the social media promotion.

2018 International Course on ICSM Meeting

In 2018, we organized the international promotion of ICSM meeting in Jinan, China, organized by professor Isao Koshima and Zeng-Tao Wang. The international promotion throughout the social media was similar to that of the 2017 BPI meeting, including the customized Facebook fan page established by Dr. T. N. J. C. for the conference promotion. 7 months prior the conference. Information introducing the faculty and the host centers were posted. Educational resources provided by the
faculties were also regularly shared on the page, offering both basic and advanced understandings of supermicrosurgery. All the posts on the page were cross posted to IMC and the official website (https://www.2018icsm.com/) as well. The domestic (Chinese) promotion was via a customized Application based on Yi-Hui-Bao system (http://mobile.medmeeting.com/?fbclid=IwAR0Oc6WX3h4FmcoR-YWwXJxzUXt2GrzTyZk0HWLwAuRbBTEDbJxGnxXUSg#/mw/778&appinstall=0). In addition, online messenger groups were created for communication between core members, faculty, and participants on Facebook messenger (English speakers), WeChat (Mandarin/English speakers in different groups), and QQ (Mandarin speakers).

International Microsurgery Club
Polls for the general consensuses of the current conference system were constructed. Three questions raised in the polls by Dr. T.N.J.C.:

- What’s your view about the impact of social media on the conference system?
- What made you decide to attend the conference? (Multiple choices)
- What is your main financial source for the conference?

Also, we collected and analyzed the promotional posts of conferences in IMC between May 6, 2016 and Feb 27, 2018 to understand the platform’s impact on the conference system and how global microsurgeons and conference organizers use it. Because most of the members in IMC are plastic or orthopaedic surgeons, the conferences promoted in the group included not only microsurgery conferences but also in areas other than microsurgery (e.g., aesthetic surgery conferences).

Results
2009 and 2017 Instructional Courses for Adult Brachial Plexus Injuries
The total participants in the 2009 and the 2017 BPI courses were 133 and 126, respectively, with no repeat participants. Compared with the 2009 BPI course, the 2017 BPI course was promoted to more countries (25 in 2009 vs. 35 in 2017) and had a greater proportion of international attendees (73.7 and 84.9%, \( p = 0.026 \)). The average flight distance to Taiwan increased significantly (4,418 ± 3,767 and 6,627 ± 3,830 km, \( p < 0.001 \)). The number of domestic (Taiwan) participants dropped from 35 (26.3%) to 19 (15.1%) and participants from East Asia greatly decreased (29.3% to 10.3%). On the contrary, participants from West Asia and North America increased by 1.5% to 9.5% (\( p = 0.004 \) and 0.8% to 7.1% (\( p = 0.008 \)), respectively (Table 1 and Fig. 1).

A total of 100 participants responded to the questionnaire for the 2017 course, with a response rate of 79.4%. Among the respondents, 39% received the meeting information through traditional promotion methods via official website (22%), email invitation (11%), and paper flyers (6%); 23% through social media tools including the Facebook fan page (11%) and IMC (12%); and 37% received their information through colleagues. Obtaining the information from colleagues could be a “gray area” because the original source of information is untraceable (Fig. 2A, 2B).

According to the participants’ responses, the main reason for joining the 2017 BPI course was live surgery (79%), followed by strong cast (45%), and good reputation of the organizers (44%). Most participants who used the Facebook fan page and IMC were satisfied with our online service of

<table>
<thead>
<tr>
<th>Subregions</th>
<th>Countries</th>
<th>2009</th>
<th>2017</th>
<th>( p )-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taiwan</td>
<td>35</td>
<td>26.3%</td>
<td>19</td>
<td>15.1%</td>
</tr>
<tr>
<td>E Asia</td>
<td>39</td>
<td>29.3%</td>
<td>13</td>
<td>10.3%</td>
</tr>
<tr>
<td>SE Asia</td>
<td>23</td>
<td>17.3%</td>
<td>31</td>
<td>24.6%</td>
</tr>
<tr>
<td>S Asia</td>
<td>7</td>
<td>5.3%</td>
<td>10</td>
<td>7.9%</td>
</tr>
<tr>
<td>C Asia</td>
<td>0</td>
<td>0.0%</td>
<td>1</td>
<td>0.8%</td>
</tr>
<tr>
<td>W Asia</td>
<td>2</td>
<td>1.5%</td>
<td>12</td>
<td>9.5%</td>
</tr>
<tr>
<td>Oceania</td>
<td>4</td>
<td>3.0%</td>
<td>8</td>
<td>6.3%</td>
</tr>
<tr>
<td>E Europe</td>
<td>2</td>
<td>1.5%</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>W Europe</td>
<td>8</td>
<td>6.0%</td>
<td>8</td>
<td>6.3%</td>
</tr>
<tr>
<td>S Europe</td>
<td>1</td>
<td>0.8%</td>
<td>3</td>
<td>2.4%</td>
</tr>
<tr>
<td>N Europe</td>
<td>8</td>
<td>8.0%</td>
<td>7</td>
<td>5.6%</td>
</tr>
<tr>
<td>N Africa</td>
<td>0</td>
<td>0.0%</td>
<td>2</td>
<td>1.6%</td>
</tr>
<tr>
<td>W Africa</td>
<td>1</td>
<td>0.8%</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>N America</td>
<td>1</td>
<td>0.8%</td>
<td>9</td>
<td>7.1%</td>
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<tr>
<td>C America</td>
<td>0</td>
<td>0.0%</td>
<td>1</td>
<td>0.8%</td>
</tr>
<tr>
<td>S America</td>
<td>2</td>
<td>1.5%</td>
<td>2</td>
<td>1.6%</td>
</tr>
</tbody>
</table>

Average flight distance to Taiwan (km)
4,418 ± 3,767 vs. 6,627 ± 3,830 km, \( p < 0.001 \).

Abbreviations: A, answer; BPI, brachial plexus injuries; C, central; E, east; N/A, not applicable; N, north; Q, question; S, south; USD, U.S. dollar; W, west.

\( ^* \) \( p \)-Value < 0.05.
troubleshooting and clear information. In total, 88% of repliers described the experience with our service as either "very satisfied" or "satisfied."

Our 2017 BPI Facebook fan page insights showed that there were 1,271 followers from 48 countries by the end of the 2017 course (November 16, 2017). There were total 78 official posts including 10 videos and 68 photo/words/link information. The videos posted on the Facebook fan group were investigated and analyzed. An informative video can reach 3,022/2,360 (range: 1,200–8,400) people with 88% of repliers described the experience with our service as either "very satisfied" or "satisfied."
Our 2018 ICSM Facebook fan page showed that there were 906 followers from 45 countries by the end of the meeting (October 15, 2018). Our previous experiences showed that video posts attract a larger audience than posts that contained information other than videos (i.e., text, photos, shared information). As such, we added more video posts in 2018 ICSM Facebook fan page. There was a total of 96 official posts which included 49 videos and 47 nonvideo posts. An informative video reached 2,928 ± 1,837 (range: 1,154–11,156) people with 1,243 ± 957 (range: 413–5,062) views. The top three views of the videos were (1) Dr. Pedro Ciudad’s (Peru) welcome talk (11,156 views); (2) Dr. Shan-Shan Qiu’s (the Netherlands) welcome talk (3,559 views); and (3) Dr. Hidehiko Yoshimatsu’s (Japan) demonstration of the superficial circumflex iliac artery perforator (SCIP) flap elevation (3,361 views).

The video posts (n = 49) were then divided into five types: (1) faculty’s invitation (talk only; n = 13); (2) faculty introduction plus expertise demonstration (n = 21); (3) surgical demonstration (n = 8); (4) conference promotion by central (n = 4); (5) special topics (n = 4). The video statistics showed that in most videos, the viewer on average of 3 seconds. Videos with audience retention more than 10 seconds tended to be surgical demonstration videos (68.05% audience retention rate) whereas the talk-only videos had the lowest retention rate (46.76% audience retention rate; Fig. 3). As for the videos’ completion rate based on the length, shorter videos had higher completion rate. Videos around 30 seconds in length had only 10 to 30% completion rate (Fig. 4). Overall, the highest completion rate was group 3 (59.2%), followed by groups 5, 2, 4, and 1 (11.08%; Fig. 5). In all, the groups, the audiences can only watch around 10 seconds (7.85–11 seconds in groups 1, 2, 4, 5), except 19.38 seconds in group 3 (surgical demonstration; Fig. 6). Also, if we pooled the groups 1 and 2 then compared the talks

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**Table 2** Number of people reached and the number of views for the videos posted on the Facebook fan page

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
<th>Amount of views</th>
<th>People reached</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug 11, 2016</td>
<td>First announcement of the BPI course</td>
<td>1,900</td>
<td>4,000</td>
</tr>
<tr>
<td>Aug 11, 2016</td>
<td>The detail of the program</td>
<td>1,400</td>
<td>2,400</td>
</tr>
<tr>
<td>May 30, 2017</td>
<td>Prof. Chuang’s welcome message</td>
<td>2,100</td>
<td>8,300</td>
</tr>
<tr>
<td>July 31, 2017</td>
<td>Introduction of the BPI course</td>
<td>1,000</td>
<td>4,500</td>
</tr>
</tbody>
</table>

Abbreviation: BPI, brachial plexus injuries.

Note: There were a total of 1,271 followers from 48 countries until the end the 2017 BPI course (Nov 16, 2017). An informative video usually can reach 2,400–8,300 people and 1,000–2,100 views around the world.

820 ± 866 (range: 242–1,900) views. The peaks of viewing times and online interactions (thumbs up, comments, or sharing the post) were within 1 to 2 days after the post. The members of the group can review and interact with any posts at any time because all the posts are remained on the page (Table 2).

2018 International Course on Super Microsurgery (ICSM) Meeting

The total international online registrations of the 2018 ICSM were 143 people but only 58 attended the conference. We supposed the main reason that some of the participants could not make it because of the VISA issues. We had a very diverse population of participants (n = 58), 36 were from Asia and Oceania, 10 from Europe, 7 from Africa, and 6 from America.
from male or female faculties, we identified that the videos from female faculties reached more people and attracted more people to watch (2,490:4,538 by reach; 928:2,177 by view; Fig. 7).

Different from most international meetings, instant messenger systems, such as Facebook messenger (English speakers), WeChat (Mandarin speakers), and QQ (Mandarin speakers) played a very important role in this meeting for online discussion, including connection, decision-making, and immediate troubleshooting. This format is very fast, economic and interactive. In this meeting, many issues such as VISA, transportation, and the instant change of the schedule, or any announcement, were delivered through these systems both in Mandarin and English instantly. Since this meeting was held in China, where the Facebook was still blocked, all the faculties and participants were requested to open a WeChat account and joined the group.

**International Microsurgery Club**

The polls we conducted on IMC showed that the majority of the microsurgeons (78%, n = 51) considered social media to be a powerful tool to facilitate the promotion of the conference system. Another 18% (n = 12) reported that social media helped them access information and select qualified conferences more efficiently. Only 4% (n = 2) stated that they attended less conferences than before because it is easy to learn through online sources (Fig. 8A). Furthermore, 97% considered “updating and adding knowledge” as the main factor that attracted them to attend the conferences, whereas less than 10% focused on “the opportunities to try new instruments,” “self-promotion,” “the casts of the faculty,” “meeting friends,” “reasonable registration fee,” and “good location” (multiple selections, n = 59; Fig. 8B). In terms of financial resources, 73% covered the conference costs by themselves, only 7% were supported by the institution and the third parties, including scholarships, foundations, internal committees or others. Unfortunately, 15% were unable to afford the fee for the conferences (n = 162; Fig. 8C).

Between May 6, 2016 and Feb 27, 2018, 333 posts of 108 different microsurgery or related professional scientific meetings were shared in the group. Both the quality and quantity of posts increased over time. Instead of simply attaching a poster or a picture, there are now an increasing number of ways to promote an event and attract the interest of surgeons, whether it is posting short videos of a speaker or...
a surgical demonstration, or even a poll for speakers and topics (Fig. 9).

Discussion

Social media is a computer-based interactive communication tool that has successfully become main stream in the last decade. In 2018, there are more than 2 billion subscribers on Facebook alone. However, the role of social media in the medical and health care fields is still evolving because it involves legal, ethical, institutional, privacy, and confidentiality restrictions. By following certain ethical guidelines, professionals can safely use this tool. The primary goal of this study was to provide an overview of current concepts related to social media, to evaluate its impact on conferences, and to understand its advantages and limitations.

In 2009, when social media was not yet popular, the promotion of our BPI course relied on e-mail, paper flyers, and the official website. All the information posted on the official website was without interaction or feedback. During the course most of the participants were as expected from nearby countries, such as Japan or China due to the difficulties of dispersing information. However, in the 2017 BPI course, the social media had become the major tool for

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**Fig. 6** Comparison of the completion rate of 47 video posts from the 2018 ICSM Facebook fan page based on average viewing time. The Surgical demonstration videos (group 3) had the longest view time (19.38 seconds), whereas the others were viewed only half as long, ranging from 7.85–11 seconds.

**Fig. 7** Comparison of video posts from either male (n = 23) or female (n = 3) faculties from the 2018 ICSM Facebook fan page. We found that on average, promotion from female faculties reached and were viewed by more people than the videos provided by male faculties (2,490:4,538 by reach; 928:2,177 by view). ICSM, International Course on SuperMicrosurgery.
Although the registration fee was doubled from 400 to 800 USD, we still had 126 participants in the 2017 course. The participants did not overlap with that of the 2009 course. The reasons may be because: (1) our BPI course is an "instructional course" for beginners, and there was no major change in the faculties including the operators and lecturers between the two courses; (2) we offered purchasable educational DVDs of the live surgeries from the 2009 BPI course and sold more than 130 copies worldwide between 2010 and 2018. Unfortunately, this widely distributed content was illegally copied.

The Facebook fan page and IMC played an essential role in promoting the 2017 BPI course. However, Facebook is restricted or banned in some countries such as the China, Iran, and North Korea; in these countries, the conference promotion requiring traditional means of official website, paper flyers, and customized social media tools (e.g., WeChat and QQ in China) or websites such as HANDSURGERY (http://www.handsurgery.cn/), the biggest social media for Chinese microsurgeons. These experiences helped immensely when we organized 2018 ICSM meeting, we designated two parallel instant messenger systems for conference promotion, online discussion, decision-making, and immediate troubleshooting via Facebook messenger (English speakers), WeChat (Mandarin speakers), and QQ (Mandarin speakers). The instant messenger system is even more efficient for the communication than the Facebook group and Facebook fan page but the main drawback is that important documents are not easily stored and are needed to utilize other systems for information dissemination and preservation.

Promotion format also was of significance. Video posts attracted more people than photo or text posts. If the video was linked to related topics, translated to different languages, or included many people (so more people can be tagged in the video as the promotion), the dissemination of the videos was greatly enhanced, achieving more than 5,000 views. Our data suggested that: (1) usually the audience viewed video for 3 seconds; (2) surgical videos are the most popular type video posts, whereas that of a single person's talk is the least attractive; (3) the longer the video, the less audiences complete the entire video; and (4) female faculty attract larger audiences than male faculty.

Another powerful tool we used that incorporated social media was online questionnaires. In the 2017 BPI course, most of the participants were very satisfied. Participants also provided constructive suggestions from the polling platform, including to assist in promoting several international societies of plastic surgery, orthopaedic surgery, and hand surgery; and pointing out the lack of dietary restrictions (e.g., halal, allergies) and the lack of a Muslim prayer room. These previously unconsidered details will be improved in future conferences to serve participants from different cultures.

The poll on IMC in this study revealed that most members consider social media a useful tool for promoting conferences because of its information dissemination efficiency and interactive character. Moreover, the cost is relatively low compared with traditional methods. Lastly, social media...
platforms like IMC have made the global microsurgeons familiar with each other and enhanced their willingness to meet in conferences for further discussions.  

With the growing popularity of social media, we believe there will be more opportunities for integration with the conference system. Online meeting systems and live broadcasts of academic events will become more common, providing instant access to knowledge and communication without the limitation of time and distance. This may reduce the need for scholars to spend time and money traveling abroad for conferences. This also paves the way for future conference systems to develop an “audience first strategy” which provides services that carefully meet the needs of participants. The hosts can provide a system, such as a poll that allows the audience to choose topics, to make the conference more interactive and worth their time. This way, the audience, instead of the speakers, can customize the programs. We foresee that social media platforms will play a more supplementary role in large conferences and may even replace smaller ones.  

Conclusion

In conclusion, social media is an effective and economic tool for promoting and managing medical conferences. It can gather resources for medical professionals and allows participants and hosts to interact with each other easily. Online promotion through social media plays an important role based on its inherent convenience, and low cost. Video posts can attract more people especially if it pertains to surgical demonstrations, while the core content that attracts the majority of medical professionals to these conferences is still live surgery or cadaveric demonstrations. Despite the convenience and abundance of the information on the internet, the actual medical conferences remain irreplaceable. We believe that combining online platforms with traditional learning materials can enhance professional education and training in not only microsurgery but also all other medical specialties.

Financial Disclosure

None of the authors has financial interests in any of the products, devices, or drugs mentioned in this manuscript.

Conflict of Interest

None declared.

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