

# Enhancing Professional Perspectives: Development of Physiotherapy Advanced Practice Models in Switzerland

Nast, I., Scheermesser, M., Bruderer-Hofstetter, M., Heinzmann Stettler, C., Horvath, C., Huber, M., Keller, M., Müller, U., Saner-Bissig, J., Tschupp, K., & Schämänn, A.

1<sup>st</sup> International Conference – «Countering Staff Shortage Among Health Professions – Together for a Healthy Health Care System»  
Bern, 25<sup>th</sup> – 26<sup>th</sup> October 2018

## Agenda

- Background & Study Aims
- Methods
- Results: Literature Review
- Prospects



# **BACKGROUND & STUDY AIMS**

# Challenges in Swiss Health Care System

## **Rising demand for health care services, based on:**

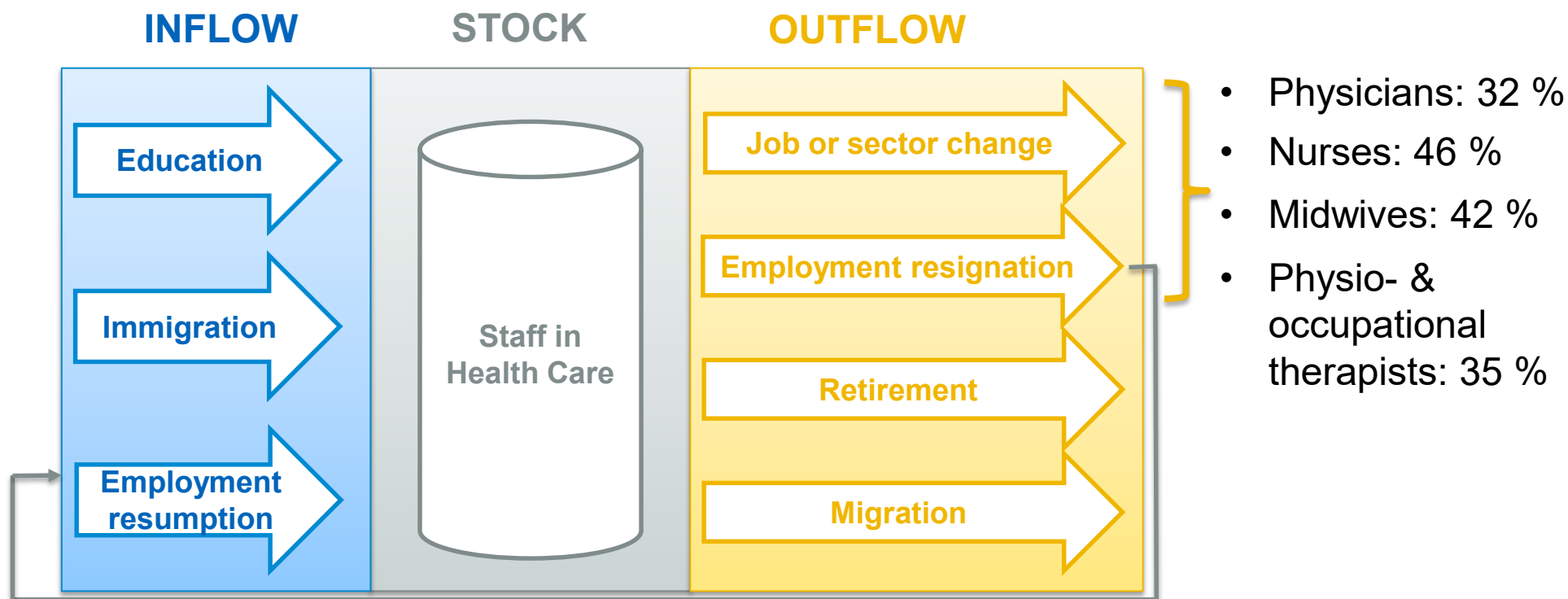
- Demographic development
- Increase of non-communicable diseases

## **Relevant factors of a Health Care Workforce to meet these demands:**

- Number of health professionals
- Number of employees per full time-equivalent
- Skill-Grade-Mix of teams

Jaccard Ruedin & Widmer (2010), Jaccard Ruedin et al. (2009),  
Kristensen, Rausa & Heiniger (2017), Lobsiger & Kägi (2016), Merçay, Burla & Widmer (2016)

# Stock of Health Care Workforce



conceptual Stock-Flow-Model: Ruesch et al. (2014), modified  
Data from the Swiss Structure Survey (Merçay, Burla & Widmer (2016))

## Occupational Careers and Job Retention of Health Professionals



### Data Project: Longitudinal Study

National Graduate Survey of Health Professionals from Universities of Applied Sciences



### Data Project: Longitudinal Study

Professional Careers in Nursing – Longitudinal Study after Career Start



### Intervention Project

- Innovative Models of Integrated Collaboration for Ambulant Care



### Intervention Project

- Job Satisfaction of Midwives



### Intervention Project

- Advanced Practice Models for Physiotherapy



### Intervention Project

- Promotion of Inter-professional Collaboration in Practice

## Potential reasons for job resignation

### Results from a Swiss survey among physiotherapists (n=2852):

Considering all their efforts and achievements:

- 42 % do (rather) not rate their job promotion prospects to be adequate.
- 64 % do (rather) not rate their salary to be adequate.

## «Advanced Practice»: Expectations

1. Improved access to health care
2. Improved quality of health care
3. Reduction of health care costs
4. Increased attractiveness of non-medical health care professions

Delamaire & Lafortune (2010)



# Advanced Practice Models for Physiotherapy

## Aims:

- to enhance career perspectives
- to gain knowledge about experiences with Advanced Practice:
  - in Switzerland and abroad
  - in Physiotherapy and other health professions
- to summarize Advanced Physiotherapy Practice (APP) elements in today's practice in Switzerland
- to learn about key stakeholders' ideas and visions related to APP
- to develop advanced practice models for Switzerland

# METHODS

## Mixed-methods design

- **Literature review:** experiences with Advanced Practice
- **Questionnaire Survey:** APP-elements in today's practice in Switzerland
- **Qualitative Interviews:** key stakeholders' ideas and visions related to APP
- **Expert Workshop:** to synthesize gained knowledge and develop advanced practice models for Switzerland

## Literature Review

**Data bases:** PubMed, Web of Science

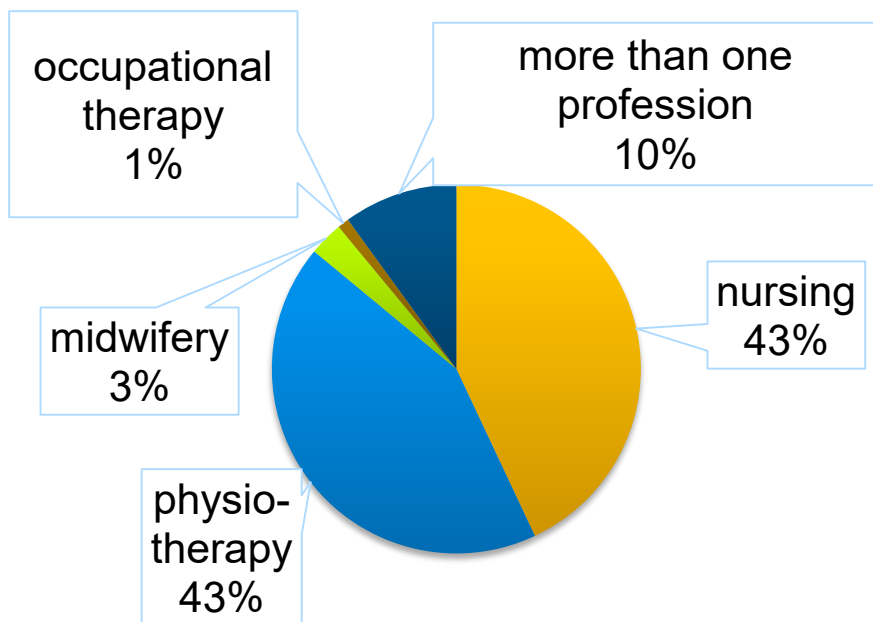
### **Inclusion criteria:**

- **Keywords for:**
  - Advanced Practice AND
  - Physiotherapy OR other health professions / health care
- **Publications from 1996 to 2017**
- **Documents:**
  - Reviews for nursing studies
  - reviews and research articles for other health professions

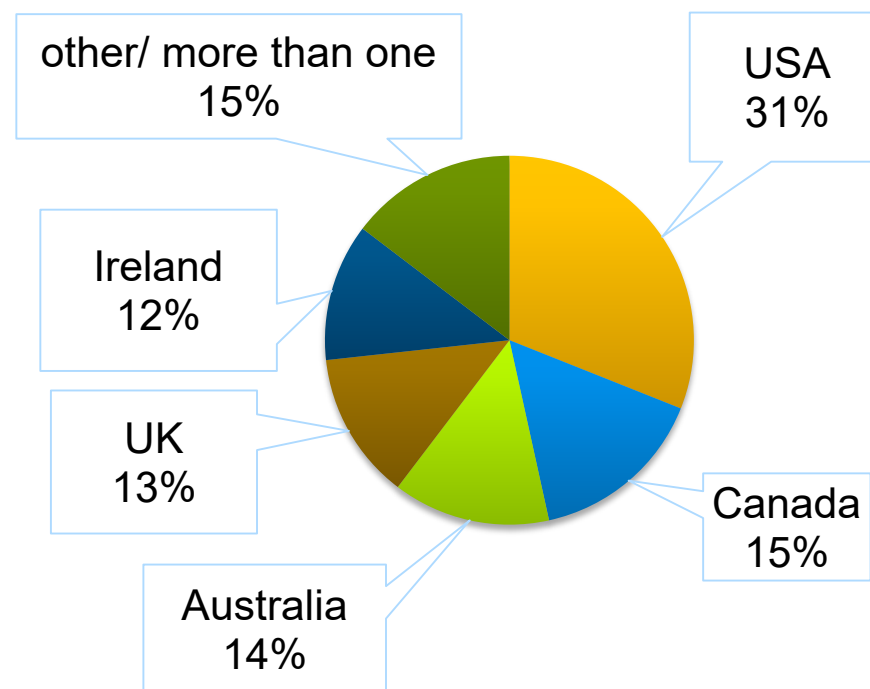
# RESULTS: LITERATURE REVIEW

# 150 Studies included

## • professions



## • countries



# Definition of Advanced Practice

«Advanced Practice is a level of practice on a continuum in which practitioners develop their **professional, knowledge, skills and behaviours to a high level**, at which they are capable of safe and effective practice **in more complex situations and with greater autonomy, responsibility and clinical accountability.**»



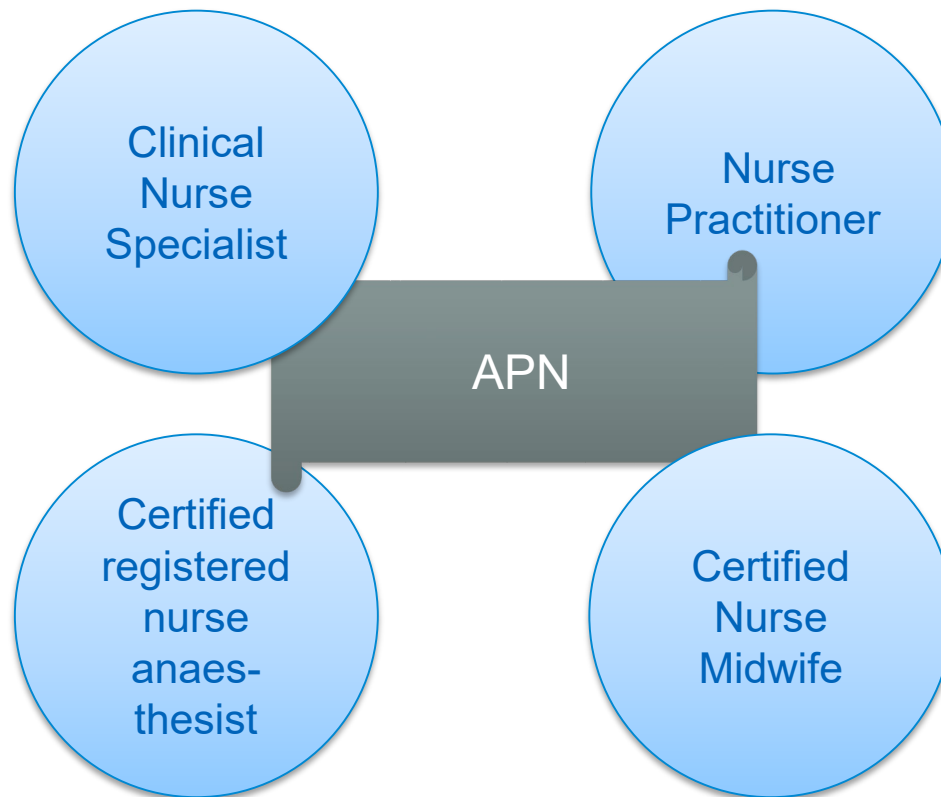
Extended Scope			
A1	A2	A3	A4
A5	A6	B1	C1

A = Tasks profession A  
B = Tasks profession B  
C = Tasks profession C

Council for healthcare regulatory excellence (2009); Künzli, Jäggi & Dutoit (2013)

# Advanced Practice Nurses (APN)

## Role examples



Delamaire & Lafortune (2010); Aaron & Scheinberg-Andrews (2016);  
Expertengruppe Schweizerischer Verein für Pflegewissenschaft (2012)



## Experiences with APN

- Improved access to health care
- High quality of care in management of chronic diseases and monitoring post rehabilitation
- Tendency towards elaborated counselling
- High patient satisfaction in most cases
- Cost evaluations:
  - Substitution of physician services: cost reduction or neutrality
  - Supplementary services: increase in costs

Martínez-González et al. (2015, 2014),  
Newhouse et al. (2011), Delamaire & Lafortune (2010), Swan et al. (2015)

# Advanced Practice Physiotherapists (APP)

## Advanced Practitioner in

- Role enhancement / advanced scope of practice
- Role substitution / extended scope, extended roles

## Roles:

- autonomous primary contact practitioner
- provider of post-surgery-monitoring
- treatment coordinator
- practitioner with extended therapeutic interventions (e.g., injections, surgeries)
- Responsible persons for quality management

McPherson et al 2006; Saxon et al. 2014; Stanhope et al. 2012 und 2012b

## Experiences with APP

### **Settings:**

Emergency departments, orthopaedic and rheumatology clinics

### **Evaluations:**

- Waiting time reduction for care
- Reduction of treatment costs
- Reduced workload in specialists
- Improvement of patient satisfaction

Chang et al., 2017; Crane & Delaney, 2014; Kinsella et al., 2018;  
Large et al., 2014; Schulz et al., 2016; Stanhope et al., 2012a+b

## Influencing factors: Barriers and Facilitators for Advanced Practice

1. Physicians' attitudes towards advanced practice
2. Compensation of health care services: fee for item vs. lump compensation
3. Legal constraint: professionalism laws, central or local regulation
4. Education system: capacity to educate Advanced Practitioners

# PROSPECTS

## Conclusion

- Literature search: Basis for the development of:
  - A conjoint definition of advanced practice in Switzerland
  - A questionnaire on current APP-elements in Switzerland
  - Advanced practice models in Switzerland
- Expected results
  - Potential scenarios/models for the implementation of advanced practice
  - Basis for future pilot projects
  - Basis for further development of curricula

## Literature (1/3)

Aaron, E.M. & Andrews, C.S. (2016). Integration of advanced practice providers into the Israeli healthcare system. *Isr. J. Health Policy Res.* doi: 10.1186/s13584-016-0065-8.

Chang AT, Gavaghan B, O'Leary S, McBride LJ, Raymer M. Do patients discharged from advanced practice physiotherapy-led clinics re-present to specialist medical services? *Aust Health Rev.* 2017; 10.1071/AH16222.

Council for healthcare regulatory excellence (2009). *Advanced Practice: Report to the four UK Health Departments.* Available at [https://www.professionalstandards.org.uk/docs/default-source/publications/advice-to-ministers/advanced-practice-2009.pdf?sfvrsn=38c67f20\\_6](https://www.professionalstandards.org.uk/docs/default-source/publications/advice-to-ministers/advanced-practice-2009.pdf?sfvrsn=38c67f20_6).

Crane J, Delany C. Physiotherapists in emergency departments: responsibilities, accountability and education. *Physiotherapy.* 2013;99:95–100. doi: 10.1016/j.physio.2012.05.003

Delamaire, M. and G. Lafortune (2010), "Nurses in Advanced Roles: A Description and Evaluation of Experiences in 12 Developed Countries", *OECD Health Working Papers*, No. 54, OECD Publishing, Paris, <https://doi.org/10.1787/5kmbrcfms5g7-en>.

Expertengruppe Schweizerischer Verein für Pflegewissenschaft (VfP). Expertenbericht APN. [http://www.pflegeforschung-vfp.ch/download/58/page/20936\\_dl\\_2012-04-03\\_vfp-apn-expertenbericht\\_final\\_d.pdf](http://www.pflegeforschung-vfp.ch/download/58/page/20936_dl_2012-04-03_vfp-apn-expertenbericht_final_d.pdf).

Jaccard Ruedin, H., Weaver, F., Roth, M. & Widmer, M. (2009). *Gesundheitspersonal in der Schweiz – Bestandesaufnahme und Perspektiven bis 2020* (Obsan Fact Sheet, Februar 2009). Neuchâtel: Schweizerisches Gesundheitsobservatorium.

Jaccard Ruedin, H. & Widmer, M. (2010). *Ausländisches Gesundheitspersonal in der Schweiz* (Obsan Bulletin, 4/2010). Neuchâtel: Schweizerisches Gesundheitsobservatorium.

## Literature (2/3)

Kinsella, R., Collins, T., Shaw, B., Sayer, J. Cary, B., Walby, A. & Cowan, S. (2018). Management of patients brought in by ambulance to the emergency department: role of the Advanced Musculoskeletal Physiotherapist. *Aust Health Rev* 42 (3), 309-315. doi: 10.1071/AH16094.

Kristensen, W., Rausa, F. & Heiniger, M. (2017). *Statistischer Bericht zur Integration der Bevölkerung mit Migrationshintergrund*. Neuchâtel: Bundesamt für Statistik.

Künzli, K., Jäggi, J. & Dutoit, L. (2013). Aktueller Stand der schweizerischen Diskussion über den Einbezug von hoch ausgebildeten nichtärztlichen Berufsleuten in der medizinischen Grundversorgung. Aktualisierung des Obsan Arbeitsdokuments 27. Bern: Bundesamt für Gesundheit.

Large KE, Page CJ, Brock K, Dowsey MM, Choong PF. Physiotherapy-led arthroplasty review clinic: a preliminary outcomes analysis. *Aust Health Rev*. 2014;38(5):510–516. doi: 10.1071/AH13238.

Lobsiger, M., Kägi, W. & Burla, L. (2016). *Berufsaustritte von Gesundheitspersonal* (Obsan Bulletin 7/2016). Neuchâtel: Schweizerisches Gesundheitsobservatorium.

McPherson, K., Kersten, P., George, S., Lattimer, V., Breton, A., Ellis, B., et al. (2006). A systematic review of evidence about extended roles for allied health professionals. *Journal of Health Service Research and Policy* 11 (4), 240–7.

Martínez-González, N.A., Rosemann, T., Tandjung, R., Djalali, S. (2015). The effect of physician-nurse substitution in primary care in chronic diseases: a systematic review. *Swiss Medical Weekly*, DOI: <https://doi.org/10.4414/smw.2015.14031>

Martínez-González, N.A., Tandjung, R., Djalali, S., Huber-Geismann, F., Markun, S. & Rosemann, T. (2014). Effects of Physician-Nurse Substitution on Clinical Parameters: A Systematic Review and Meta-Analysis.



## Literature (3/3)

- Merçay, C., Burla, L. & Widmer, M. (2016). *Gesundheitspersonal in der Schweiz. Bestandesaufnahme und Prognosen bis 2030* (Obsan Bericht 71). Neuchâtel: Schweizerisches Gesundheitsobservatorium.
- Nast, I., Scheermesser, M., Allet, L., Gafner, S., Wirz, M., Hilfiker, R. & Schämänn, A. (2017). Forschungsthemen zur Unterstützung der Berufspolitik. Schlussbericht. <https://www.physioswiss.ch/de/profession/Forschung>.
- Newhouse et al. (2012). Policy implications for optimizing advanced practice registered nurse use nationally. *Policy Polit Nurs Pract.* doi: 10.1177/1527154412456299.
- Rüesch, P., Bänziger, A., Dutoit, L., Gardiol, L., Juvalta, S., Volken, T., & Künzi, K. (2014). *Prognose Gesundheitsberufe Ergotherapie, Hebammen und Physiotherapie 2025*. ZHAW Reihe Gesundheit Nr. 3., April 2014.
- Saxon, R.L., Gray, M.A., Oprescu, F.I. (2014). Extended roles for allied health professionals: an updated systematic review of the evidence. *Journal of Multidisciplinary Healthcare* 7, 479-488.
- Schulz, P., Prescott, J., Shifman, J., Fiore, J. Jr., Holland, A. & Harding, P. (2016). Comparing patient outcomes for care delivered by advanced musculoskeletal physiotherapists with other health professionals in the emergency department-A pilot study. *Australas Emerg Nurs J*, 19 (4), 198-202.
- Stanhope, J., Grimmer-Somers, K., Milanese, S., Kumar, S., & Morris, J. (2012). Extended scope physiotherapy roles for orthopedic outpatients: an update systematic review of the literature. *Journal of Multidisciplinary Healthcare* 5, 37-45. <https://doi.org/10.2147/JMDH.S28891>.
- Swan, M., Ferguson, S., Chang, A., Larson, E., & Smaldone, A. (2015). Quality of primary care by advanced practice nurses: a systematic review. *International Journal for Quality in Health Care*, 27 (5), 396-404.