## S1 Appendix



## The TIDieR (Template for Intervention Description and Replication) Checklist\*:

Information to include when describing an intervention and the location of the information

Numbe	Item	Where located **
r		
1.	BRIEF NAME	Minor ailment service (MAS).
2.	WHY	MAS is defined as a "professional service provided upon patient's request in the pharmacy when unsure of which medicinal product to acquire [] for a specific health problem" (Pharmaceutical Care Forum in Community Pharmacy, 2019). The international literature reports that structured minor ailments schemes improve the clinical, humanistic and economic outcomes for patients and the health care system (1-4). Collaboratively agreed protocols have been shown to enhance appropriate referrals by pharmacist to other health care professionals, particularly to general medical practitioner. Appropriate referrals increase the quality of the service and increase patient's safety. Monitoring patient self-selection of non-prescription medication enhances quality use of these medicines and increases patient safety. At present there appears to be wide variability of practices on how pharmacist respond to patients presenting symptoms and to self-medication product request. Quality standards need to be applied to promote the safe and effective management of minor ailments in community pharmacy setting.
3.	WHAT	The intervention was composed of:  Standardised consultation on an IT platform for pharmacist–patient intervention which included:  1. A MAS was provided following good pharmacy standards by the Pharmaceutical Care Forum in Community Pharmacy (see Procedures section).  2. Each minor ailment studied had a collaboratively agreed protocol (see Procedures section).

		3. Educational material for the patient included non-pharmacological treatment for each minor ailment:
		https://www.sefac.org/system/files/2020-01/INDICA%2BPRO_Informe.pdf (Appendix 4, pages 151 to 157)
		4. An IT practice program (SEFAC eXPERT®) led the pharmacists through the individual patient consultation with
		selected pop ups including protocol flow and referral criteria for each minor ailment. It guided pharmacists through
		two main pathways: patients presenting with symptoms or requesting a non-prescription medicine. An example
		can be found on: <a href="https://www.sefac.org/system/files/2020-01/INDICA%2BPRO_Informe.pdf">https://www.sefac.org/system/files/2020-01/INDICA%2BPRO_Informe.pdf</a> (Appendix 7, pages
		160 to 163).
		A change agent (CA) made regular on-site visits during the study to resolve doubts, problems, advice, educate
		pharmacists and check fidelity of the intervention through data inspection. Support was also provided via
		email/telephone during the study period. CA was trained to ensure the study objectives were met.
		Educational training for pharmacists: Three half-day course (12 hours) was delivered by two experts (a community
		pharmacist and a general medical practitioner) which included: MAS procedure, good practice standards, agreed service
		protocols, communication's skills with the patient and other health professionals and data collection methods.
		Pharmaceutical Care Forum in Community Pharmacy in 2010 has standardized procedures for the delivery of a MAS
		in community pharmacy. These were adapted and enhanced in the IT consultation process
		https://www.farmaceuticos.com/wp-content/uploads/2021/02/ON_GUIA_SPFA_FORO_2022_ING_PGs.pdf (Page 28
		to 35)
		https://www.farmaceuticos.com/wp-content/uploads/2019/09/BBPP-02-ENG-Servicio-Indicacion-Medicamentos.pdf
4.	Procedures	

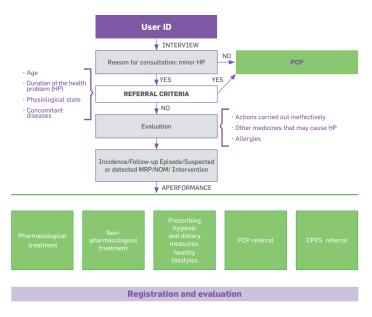


Figure 1. Diagram of the Minor Ailment Service procedure

\*PCP: Primary Care physician; MRP: medication related problem; NOM: negative outcome associated with the medication; CPPS: clinical professional pharmacy service

Pharmaceutical Care Forum in Community Pharmacy developed this standard operational procedure (SOP) and established the requirements for providing MASs in the document "Good pharmacy practice in Spanish community pharmacy".

Specific protocols for each symptom are published in "Protocols for the MAS and Referral Criteria for Minor Ailments" (5). These protocols and guideline were codesigned and agreed between community pharmacists and general medical practitioners and include referral criteria according to patient's age, symptoms' duration, red flags, other health problems and special physiological situations such as pregnancy, breastfeeding; appropriate pharmacological and non-pharmacological treatment for each specific minor ailment. An example for one of the minor ailment's protocol (nasal congestion) can be found in Appendix 1 of: Amador-Fernández N, Benrimoj SI, Baixauli VJ, Climent MT, Colomer V, Esteban O et al. Colaboración farmacéutico-médico en la elaboración de protocolos consensuados para el tratamiento

	de síntomas menores: programa 'INDICA+PRO'. Farmacéuticos Comunitarios. 2019;11:21-31. https://doi:
	10.5672/FC.2173-9218.(2019/Vol11).004.03.(6)
WHO	Registered pharmacists provided the MAS after attending a 12-hour training and following the advice of a CA.
PROVIDED	Pharmacy staff other than the pharmacists were not included in the study.
	MAS was provided through a face-to-face encounter between the pharmacist and the patient, so individual interviews
	were carried out in the community pharmacy. When patients attended the pharmacy either requesting a direct product
HOW	request (non-prescription medicine) of presenting symptoms covered in the study they were informed about the study.
	If they accepted to participate the signed a consent form.
	10 days following this consultation a researched phoned them at the number provided.
WHERE	National level in Spain, community pharmacies were invited by six Pharmaceutical Associations and the Spanish
	Society of Clinical, Family and Community Pharmacy (SEFAC) to take part voluntarily in the program through a
	number of channels (email, websites, newsletters, advertisements).
WHEN and HOW MUCH	The intervention was provided by the community pharmacist in a single consultation that took place when the patient
	visited the pharmacy asking for advice or requesting a non-prescription medication for one of the minor ailments
	included (see Tailoring).
	The consultation using an IT practice program took a mean time of 5.48 minutes.
	Patients included in the study were those who presented in the participating community pharmacies with symptoms or
	requested a medication for a minor ailment. The patient inclusion criteria were: aged ≥18 years, or younger if they were
	accompanied by a responsible adult, presenting one of the minor ailments listed below or other included at the discretion
TAILORING	of the pharmacist. Clinical protocols were designed for the management of: upper respiratory tract related (nasal
	congestion, cold, cough); pain related (headache, joint and back pain, dental pain, sore throat, dysmenorrhea); digestive
	(heartburn, flatulence, diarrhoea, constipation, vomiting); dermatological (acne, mouth ulcers, dermatitis, soft tissue
	injuries, cold sore hyperhidrosis, bites and stings, athlete's foot, burns, rashes); other ailments (acute stress disorder,
	HOW  WHERE  WHEN and HOW MUCH

		fever, haemorrhoids, insomnia, red eye, dry eye, vaginal candidiasis, varicose veins). These protocols were agreed
		through a co-design process between medical and pharmacy associations, and were facilitated by researchers from the
		University of Granada. They included referral criteria and treatment to be evaluated depending on patient's
		characteristics.
		Standardised consultation could follow two main pathways depending on patients presenting with symptoms or
		requesting a medicine for a minor ailment. Those cases where the patient requested a medicine, the pharmacists had to
		evaluate if the medication requested was the most appropriate treatment.
10. ‡	MODIFICATIO	No changes were made in the intervention during the course of the study.
	NS	
		The MAS scheme was co-designed with pharmacist, general medical practitioners, patients' organisations and local
11.	HOW WELL	health administrators using existing materials and nationally agreed documentation. The specific pharmacist/patient
	(planned)	interventions were developed with this group over a six-month period and then piloted.
		A CA was trained to follow up the intervention and control pharmacists. He/she made regular visits/calls in every
		community pharmacy to assess adherence to the guidelines. The CA completed a checklist at each pharmacy including
		the collection of facilitators and barriers for delivering the service. The CA check the fidelity of the intervention through
		checks on the IT program and the extracted data from this program. The CA was available telephone and email contacts
		to assist pharmacists in the intervention group throughout the study.
_		In addition to further assess intervention adherence and fidelity, IT data collection program was checked by the research
12. <sup>‡</sup>	HOW WELL	group. The consultation was documented though the IT practice program. The pharmacist recorded his/her actions in
	(actual)	the program. Evidence for those cases where the community pharmacists didn't adhere to the guidelines, for example,
		when referral criteria was detected by the pharmacists but the patient was not appropriately refer and those cases where
		the pharmacists recommended modification of the treatment requested but the patient did not follow the
		recommendation were recorded as part of the process.
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<sup>1.</sup> Amador-Fernández N, Benrimoj S, Olry de Labry Lima A, García-Cárdenas V, Gastelurrutia M, Berger J, et al. Strengthening patients' triage in community pharmacies: a cluster randomised controlled trial to evaluate the clinical impact of a minor ailment service PloS one. 2022.

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- 4. Watson MC, Ferguson J, Barton GR, Maskrey V, Blyth A, Paudyal V, et al. A cohort study of influences, health outcomes and costs of patients' health-seeking behaviour for minor ailments from primary and emergency care settings. BMJ open. 2015;5(2):e006261.
- 5. Amador-Fernández N, Amariles P, Baixauli-Fernández V, Benrimoj S, Climent-Catalá M, Colomer-Molina V, et al. Protocolos de Indicación Farmacéutica y Criterios de Derivación al Médico en Síntomas Menores [Protocols for the minor ailment service and referral criteria for minor ailments]. Granada: Editorial Técnica Avicam; 2018.
- 6. Amador-Fernández N, Benrimoj S, Baixauli V, Climent M, Colomer V, Esteban O, et al. Colaboración farmacéutico-médico en la elaboración de protocolos consensuados para el tratamiento de síntomas menores: programa 'INDICA+PRO' [Colaboration between pharmacists and general medical practitioners for the elaboration of agreed protocols for minor ailments: "INDICA+PRO" program]. Farmacéuticos Comunitarios. 2019;11:21-31.