Appendix 3

Critical appraisal checklist of articles

Reviewe Author Journal	r Manuscript Code Date of Review Date of Publication				······
1. Scre	eening question				
		Yes	NC*	No	NA**
1.1	Does the article contain a definition of polypharmacy?				
	Is it worth continuing?				
2. Det	ailed questions				
		Yes	NC	No	NA
1.2	Is the criterion for defining polypharmacy clearly stated? Hint Based on:				
	Number of medications used				
	Excessive drug use				
	Unnecessary drug use				
	Other				
2.2	In the definition of polypharmacy, is the frequency of drug use mentioned? Hint Continued use:				
	Once a week				
	Every other day				
	Monthly				
	Non-continued use Irregular use Occasional use Other				
2.3	In the definition of polypharmacy, is medication types and route of administration mentioned? Hint				
	Pill/suppository/syrup/drop/cream/spray/injection/ot her				
	Oral/topical/injection/inhalation/other				

		Yes	N C	No	NA
2.4	In the definition of polypharmacy, is drug type mentioned? Hint				
-	Chemical/herbal/homemade				
	Prescribed/ non-prescribed/over- the-counter				
-	Other				
2.5	Is the method for collecting data concerning subjects' drug profile for the definition of polypharmacy clearly stated? Hint				
	Self-declaration of the patient \square				
	Reviewing patient's prescriptions				
	Checking patient's medicine cabinet				
	Using patient's' hospital records \square				
-	Using electronic databases				
	Other				
2.6	Is the eligibility of the person examining drug profiles described?				
2.7	Is the tool used for examining drug profiles clearly described?				
2.8	Is the reliability and validity of the tool used for examining drug profiles described?				
3. If	polypharmacy is defined based on number of medication	ns			
		Yes	N C	No	NA
3.1	Does it state the criterion for counting medications for the definition of polypharmacy? Hint				
-	Number of medication items used over a specified time period				
	Number of medications used over a specified time period				
3.2	Is a cut point specified?				
3.3	Is there any scientific justification or evidential resource for the mentioned cut point?				
	4. If notunharmacy is defined based on excessive or				
	4. If polypharmacy is defined based on excessive or unnecessary use of medications				

		Yes	NC	No	NA
4.1	Does it state how the necessity /lack of necessity of drug use is assessed?				
	Does it state how patient condition is evaluated to assess the				
	necessity /lack of necessity of drug use?				
	Hint				
	History				
	Full evaluation (history, physical exam, workup results)				
	Medical records and charts				
4.2	Does it describe the eligibility criteria of the person examining patient condition?	Ш	Ш	Ш	
4.3	In assessing the necessity /lack of necessity of drug use, is a particular				
	tool used to evaluate patient condition?				
4.4	Is the reliability and validity of the tools described?			Ш	
4.5	Is "excessive medication" clearly defined? Hint				Ш
	Dosage higher than essential at each				
	time use				
	Frequency of use higher than essential				
	Extra items in each regimen				
	Using PIM				
	Drug-drug interactions				
	Drug-disease interactions				
	Duplications				_
	Same class				
	Other				
4.5	Is a particular tool used to evaluate excessive drug use?				
7.5	is a particular tool used to evaluate excessive drug use:				

*NC: not clear

**NA: not applicable