

PatientSupporter Rule Signatures (v1.0):

Note: With regards to N3 syntax, “_:” represents all instances of the subject. In actual implementation, the following format is used:

“:subject_1”

“:subject_2....”

Etc.

Age:

Identifies the user’s age for each individual profile.

POSL Syntax:

age(?ProfileID,?Age).

N3 Syntax:

_:age

<i>rdf:type</i>	<i>:Age;</i>
<i>:profileID</i>	<i>?ProfileID;</i>
<i>:age</i>	<i>?Age.</i>

Usage:

ProfileID = The profile the age pertains to.

Age = The age associated with the profile.

AgeGroup:

Used to check to see if a profile associated age is within the specified age group.

POSL Syntax:

ageGroup(?ProfileID,?MinAge,?MaxAge,?Age).

N3 Syntax:

_:ageGroup

<i>rdf:type</i>	<i>:AgeGroup;</i>
<i>:profileID</i>	<i>?ProfileID;</i>
<i>:injury</i>	<i>?Injury;</i>
<i>:minAge</i>	<i>?MinAge;</i>
<i>:maxAge</i>	<i>?MaxAge.</i>

Usage:

ProfileID = The profile identification corresponding to the age group requirement.

Injury = The type of injury the age group requirement pertains to.

MinAge = The minimum age of patients allowed in the profile’s group of the given injury type.

MaxAge = The maximum age of patients allowed in the profile's group of the given injury type.

Category:

Defines whether the user of the profile is either an outpatient or inpatient.

POSL Syntax:

category(?ProfileID,?Category).

N3 Syntax:

```
_:category
    rdf:type        :Category;
    :profileID      ?ProfileID;
    :category       ?Category.
```

Usage:

ProfileID = The profile which the category pertains to.

Category = The category that patient profile falls under.

Communication:

Specifies available communication channels that the user of the profile uses.

POSL Syntax:

communication(?ProfileID,?Channel).

N3 Syntax:

```
_:communication
    rdf:type        :Communication;
    :profileID      ?ProfileID;
    :channel        ?Channel;
    :contact        ?Contact.
```

Usage:

ProfileID = The profile identification corresponding to the communication channel contact.

Channel = The type of communication device or program.

Contact = The user name for the given channel.

Duration:

The user specifies in their profile what duration a particular kind of group meeting can last for them.

POSL Syntax:

duration(?ProfileID,?Injury,dateTime[?DurYear,?DurMonth,?DurDay,?DurHour,?DurMinute]).

N3 Syntax:

_:duration

```
rdf:type           :Duration;  
:profileID        ?ProfileID;  
:injury           ?Injury;  
:duration         [rdf:type :DateTime;  
                   :year ?DurYear;  
                   :month ?DurMonth;  
                   :day ?DurDay;  
                   :hour ?DurHour;  
                   :minute ?DurMinute].
```

Usage:

ProfileID = The profile identification which the duration pertains to.

Injury = The type of injury group the duration is meant for.

DurYear = The number of years in the duration.

DurMonth = The number of months in the duration.

DurDay = The number of days of duration.

DurHour = The number of hours of duration.

DurMinutes = The number of minutes of duration.

Events:

As a user performs events, or plans to perform events, they will be registered in the knowledge base as **Possible**, **Planned**, (**Performing**), or **Past** events. Possible events are events that do not have a specific injury assigned to them, but the user has indicated that he/she would like to perform a group meeting between the times registered. Planned refers to an event that has not happened yet, but has a specific injury assigned to it. Past events are events that have already occurred.

POSL Syntax:

```
event(?ProfileID,?Injury,?Tense, dateTime[?StartYear,?StartMonth, ?StartDay, ?StartHour,  
?StartMinute], dateTime[?EndYear,?EndMonth, ?EndDay, ?EndHour, ?EndMinute]).
```

N3 Syntax:

_:event

```
rdf:type           :Event;  
:calendarID       ?ProfileID;  
:injury           ?Injury;  
:tense            ?Tense;  
:startDateTime    [rdf:type :DateTime;  
                   :year ?StartYear;  
                   :month ?StartMonth;
```

```

        :day ?StartDay;
        :hour ?StartHour;
        :minute ?StartMinute];
:endDateTime [rdf:type :DateTime;
        :year ?EndYear;
        :month ?EndMonth;
        :day ?EndDay;
        :hour ?EndHour;
        :minute ?EndMinute];

```

Usage:

ProfileID = The profile identification tied to the event.
 Injury = The type of injury the event is planned for.
 Tense = Possible, Planned, or Past. (As described above).
 StartYear = The year for the starting date of the event.
 StartMonth = The month for the starting date of the event.
 StartDay = The day for the starting date of the event.
 StartHour = The hour for the starting time of the event.
 StartMinute = The minute for the starting time of the event.
 EndYear = The year for the ending date of the event.
 EndMonth = The month for the ending date of the event.
 EndDay= The day for the ending date of the event.
 EndHour = The hour for the ending time of the event.
 EndMinute = The minute for the ending time of the event.

Gender:

Identifies the user's gender for each individual profile.

POSL Syntax:

gender(?ProfileID,?Gender).

N3 Syntax:

```

_:gender
    rdf:type      :Gender;
    :profileID    ?ProfileID;
    :gender       ?Gender.

```

Usage:

ProfileID = The profile identification corresponding to the gender fact.
 Gender = The gender associated with the profile.

GoodDuration:

This determines whether or not an event can be carried out based on the event time differences and the duration, via date time functions.

POSL Syntax:

goodDuration(?ProfileID, dateTime[?DurYear, ?DurMonth, ?DurDay, ?DurHour, ?DurMinute], dateTime[?StartYear, ?StartMonth, ?StartDay, ?StartHour, ?StartMinute], dateTime[?EndYear, ?EndMonth, ?EndDay, ?EndHour, ?EndMinute]).

N3 Syntax:

_:goodDuration

```

rdf:type      :GoodDuration;
:profileID    ?ProfileID;
:duration     [rdf:type :DateTime;
               :year ?DurYear;
               :month ?DurMonth;
               :day ?DurDay;
               :hour ?DurHour;
               :minute ?DurMinute];
:startDateTime [rdf:type :DateTime;
               :year ?StartYear;
               :month ?StartMonth;
               :day ?StartDay;
               :hour ?StartHour;
               :minute ?StartMinute];
:endDateTime  [rdf:type :DateTime;
               :year ?EndYear;
               :month ?EndMonth;
               :day ?EndDay;
               :hour ?EndHour;
               :minute ?EndMinute].

```

Usage:

ProfileID = The profile identification corresponding to the duration check.

DurYear = The number of years in the duration of the event.

DurMonth = The number of months in the duration of the event.

DurDay = The number of days of duration in the event.

DurHour = The number of hours of duration in the event.

DurMinutes = The number of minutes of duration in the event.

StartYear = The year for the starting date of the event.

StartMonth = The month for the starting date of the event.

StartDay = The day for the starting date of the event.

StartHour = The hour for starting time of the event.
StartMinute = The minute for starting time of the event.
EndYear = The year for the ending date of the event.
EndMonth = The month for the ending date of the event.
EndDay = The day for the ending date of the event.
EndHour = The hour for ending time of the event.
EndMinute = The minute for ending time of the event.

GroupSize:

User specifies in their profile what range of group sizes they'd like to be in while participating in specific activities.

POSL Syntax:

groupSize(?ProfileID,?Injury,?Min,?Max).

N3 Syntax:

_:groupSize

<i>rdf:type</i>	<i>:groupSize;</i>
<i>:profileID</i>	<i>?ProfileID;</i>
<i>:injury</i>	<i>?Injury;</i>
<i>:min</i>	<i>?Min;</i>
<i>:max</i>	<i>?Max.</i>

Usage:

ProfileID = The profile identification corresponding to the fitness level.
Injury = The type of injury the group size pertains to.
Min = The minimum amount of patients for a group of the given injury type.
Max = The maximum amount of patients for a group of the given injury type.

Healing Stage:

Indicates what stage the user's healing is at for each specific injury they have.

POSL Syntax:

healingStage(?ProfileID,?Injury,?HealingStage).

N3 Syntax:

_:healingStage

<i>rdf:type</i>	<i>:HealingStage;</i>
<i>:profileID</i>	<i>?ProfileID;</i>
<i>:injury</i>	<i>?Injury;</i>
<i>:healingStage</i>	<i>?HealingStage.</i>

Usage:

ProfileID = The profile identification corresponding to the healing stage.

Injury = The type of injury the healing stage pertains to.

HealingStage = The current healing stage of the injury.

MyDiscussion:

The profile rule to determine if the search fits one of it's injury group requirements.

POSL Syntax:

myDiscussion(?ProfileID, ?Injury:Type, ?MinAge, ?MaxAge, ?MinRSVP, ?MaxRSVP, ?Category, ?Treatment, ?HealingStage, dateTime[?StartYear, ?StartMonth, ?StartDay, ?StartHour, ?StartMinute], dateTime[?EndYear, ?EndMonth, ?EndDay, ?EndHour, ?EndMinute], dateTime[?DurYear, ?DurMonth, ?DurDay, ?DurHour, ?DurMinute], ?Channel, ?Contact, ?Gender, ?TimeZone).

N3 Syntax:

```
_:myDiscussion
  rdf:type                :MyDiscussion;
  :profileID              ?ProfileID;
  :injury                 ?Injury;
  :minAge                 ?MinAge;
  :maxAge                 ?MaxAge;
  :minRSVP                ?MinRSVP;
  :maxRSVP                ?MaxRSVP;
  :category               ?Category;
  :treatment              ?Treatment;
  :healingStage           ?HealingStage;
  :startDateTime          [rdf:type :DateTime;
                           :year ?StartYear;
                           :month ?StartMonth;
                           :day ?StartDay;
                           :hour ?StartHour;
                           :minute ?StartMinute];
  :endDateTime            [rdf:type :DateTime;
                           :year ?EndYear;
                           :month ?EndMonth;
                           :day ?EndDay;
                           :hour ?EndHour;
                           :minute ?EndMinute];
  :duration               [rdf:type :DateTime;
```

	<i>:year ?DurYear;</i>
	<i>:month ?DurMonth;</i>
	<i>:day ?DurDay;</i>
	<i>:hour ?DurHour;</i>
	<i>:minute ?DurMinute]</i>
<i>:channel</i>	<i>?Channel;</i>
<i>:contact</i>	<i>?Contact;</i>
<i>:gender</i>	<i>?Gender;</i>
<i>:timeZone</i>	<i>?TimeZone.</i>

Usage:

ProfileID = The profile identification corresponding to the suggested injury event.

Injury = The type of injury that the group pertains to.

Category= The category of the group the duration is meant for.

MinAge = Minimum age of participants.

MaxAge = Maximum age of participants.

MinRSVP = Minimum number of participants.

MaxRSVP = Maximum number of participants.

StartYear = The year for the starting available date for the event.

StartMonth = The month for the starting date available for the event.

StartDay = The day for the starting date available for the event.

StartHour = The hour for the starting time available for the event.

StartMinute = The minute for the starting available time for the event.

EndYear = The year for the ending date available for the event.

EndMonth = The month for the ending date available for the event.

EndDay= The day for the ending date available for the event.

EndHour = The hour for the ending time available for the event.

EndMinute = The minute for the ending time available for the event.

DurYear = The number of years in the duration of the event.

DurMonth = The number of months in the duration of the event.

DurDay = The number of days of duration in the event.

DurHour = The number of hours of duration in the event.

DurMinutes = The number of minutes of duration in the event.

Channel = The type of communication device or program.

Contact = The user name for the given channel.

Gender = Gender of participants.

Time Zone = Time zone of participants.

Participation

Used to check to see if a profile associated groupSize requirements is within the specified group size.

POSL Syntax:

participation(?ProfileID,?Injury,?MinRSVP,?MaxRSVP).

N3 Syntax:

N/A

Usage:

ProfileID = The profile identification corresponding to the fitness level.

Injury = The type of injury that the group pertains to.

MinRSVP = The given minimum group size to compare against the profile's preferences.

MaxRSVP = The given maximum group size to compare against the profile's preferences.

TimeZone:

Identifies the user's time-zone for each individual profile.

POSL Syntax:

timezone(?ProfileID,?TimeZone).

N3 Syntax:

_:timezone

rdf:type:TimeZone;

:profileID ?ProfileID;

:timezone ?TimeZone.

Usage:

ProfileID = The profile identification which the time zone pertains to.

TimeZone = The time zone relevant to the profile.

Treatment:

Indicates what treatment the user is receiving for each specific injury they have.

POSL Syntax:

treatment(?ProfileID,?Injury,?Treatment).

N3 Syntax:

_:treatment

rdf:type :Treatment;

:profileID ?ProfileID;

:treatment ?Treatment.

Usage:

ProfileID = The profile identification corresponding to the fitness level.

Injury = The type of injury that the treatment pertains to.
Treatment = The treatment type of the given injury.

Currently Used Body Partonomy

